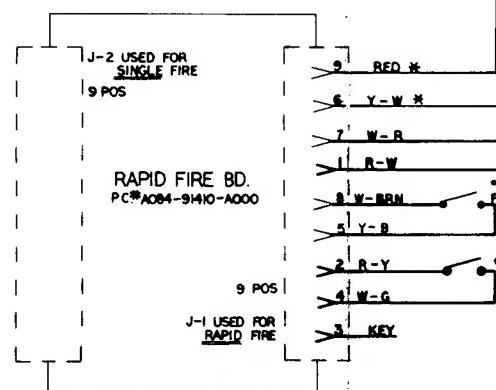


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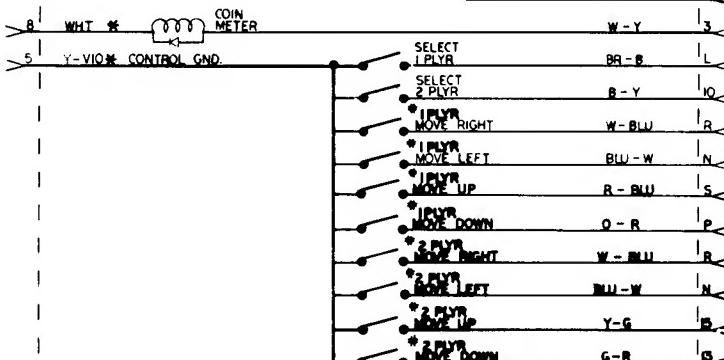
REVISIONS		DATE CHANGED	NAME
FIRST FINISHED		11-6-8	T. KENNER

BOSCONIAN C.T.



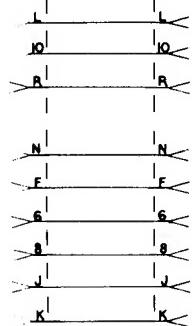
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20 POS



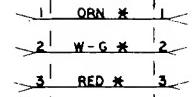
CPU BD.  
PC# A084-91404-8508

44 POS

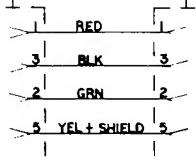


FILTER  
BD.  
PC#  
A084-91408-A508

3 POS

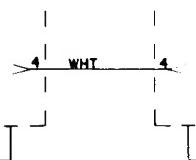


6 POS



VIDEO BD.  
PC# A084-91405-8508

6 POS



BD.  
A000

9 POS

SED FOR  
PIR FIRE

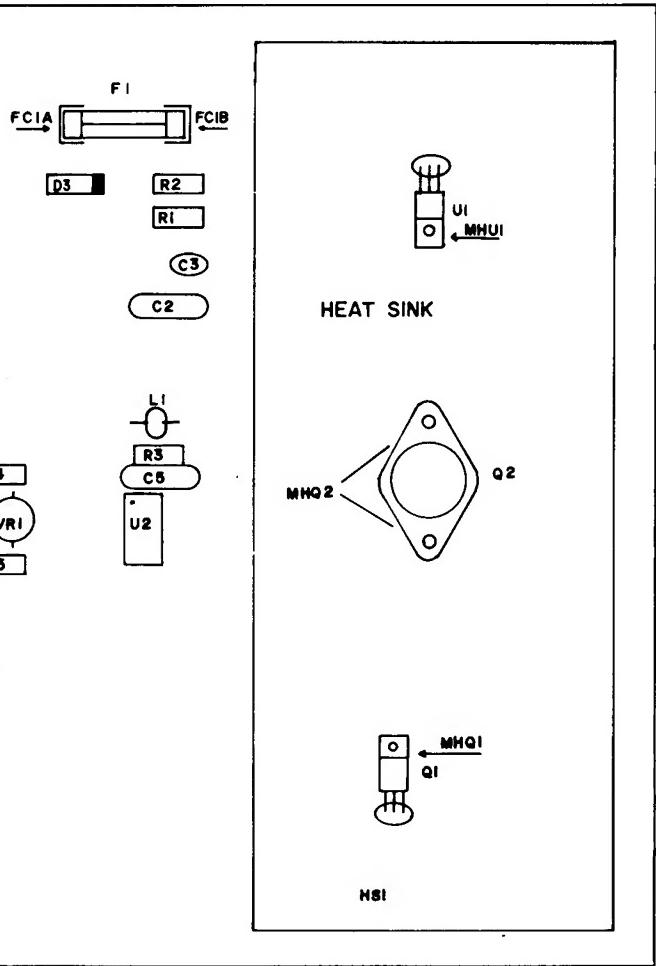
KEY

WHT

TAN

MONITOR  
JACKS

DESIGNATION	DESCRIPTION
C1 C2 C3 C4 C5 C6 C7	10000 MF 35V AX. ELEC. .01MF 50V AX. CER. 1MF 25V TANT. 20000 MF 16V AX. ELEC. 100PF 50V AX. CER. 470MF 16V AX. ELEC. 4700 MF 25V "
R1 R2 R3 R4 R5 R6	470 OHM 1/4W 5% CRBN 100 " " " " 2.7K " " " " 560 " " " " 510 " " " " 10 " " " "
VRI	100 OHM 1/4W CRBN. FLM.
D1,D2 D3 D4,D5 D6-D9 D10	A14F IN4004 MR780 A15F A14F
Q1 Q2	TIP31 2N3055
U1 U2	LM317 3632
L1 HS1 F1 F2 F3	FERROXCUBE BEAD HEAT SINK FUSE 2A " 8A " 6A
FC1A,FC1B,FC2A FC2B,FC3A,FC3B	FUSECLIP W/ STOP "
J1 J2	CONN. KK.156 (RA)(5-PIN) (6-PIN) " " (RA)(5-PIN) (13-PIN)
MHQ1	MOUNTING HARDWARE Q1 (1) SCREW 4-40X10 SLT RND (1) WSH.4 120-.250-018 (1) HEXNUT 4-40 (1) SHOULDER WSH. 974-302 THERMAL COMPOUD AS REQ. (1) TO-220 INSULATOR RT-3.5 MICA
MHQ2	MOUNTING HARDWARE Q2 (2) SCREW 4-40X10 SLT RND (2) WSH.4 120-.250-018 (2) HEXNUT 4-40 (2) SHOULDER WSH. 974-302 THERMAL COMPOUD AS REQ. (1) TO-3 RT-1.5 FILM
MHU1	MOUNTING HARDWARE U1 (1) SCREW 4-40X10 SLT RND (1) WSH.4 120-.250-018 (1) HEXNUT 4-40 (1) SHOULDER WSH. 974-302 THERMAL COMPOUD AS REQ. (1) TO-220 INSULATOR RT-3.5 MICA
TWI-TW3	TIE WRAPS



DESCRIPTION	QTY	DESIGNATION	PART NUMBER
100 PF 50v AX.CER.	1	C5	0606-00800-2100
.01MF " "	1	C2	0171-097H2-JXXX
1MF 25v TANT.	1	C3	0935-00814-0100
470MF " AX.ELEC.	1	C6	0175-271EX-EXXX
4700MF " "	1	C7	0606-00800-2200
10000MF 35v AX.ELEC.	1	C1	0175-322GX-EXBX
20000 16v MF "	1	C4	0935-00814-0800
10 OHM 1/4w 5% CBN	1	R6	0062-051B3-1XXX
100 " " "	1	R2	0062-110B3-1XXX
470 " " "	1	R1	0062-156B3-1XXX
510 " " "	1	R5	0062-159B3-1XXX
560 " " "	1	R4	0062-162B3-1XXX
2.7K " " "	1	R3	0062-199B3-1XXX
100 " CBN FLM	1	VR1	0063-025AX-1DEX
1N4004	1	D3	0508-00801-0200
A14F	3	D1,D2,D10	0064-168XX-XXGX
A15F	4	D6-D9	0064-169XX-XXGX
MR750	2	D4,D5	0064-303XX-XXJX
TIP31	1	Q1	0065-485XX-XXXX
2N3055	1	Q2	0935-00800-0000
3532	1	U2	0066-044BX-XXXX
LM317	1	U1	0935-00804-3600
FERROXCUBE BEAD	1	L1	0017-00009-0225
HEAT SINK	1	HS1	0068-045XX-ABDX
FUSE 2A	1	F1	0017-00003-0005
FUSE 6A	1	F3	0017-00003-0008
FUSE 8A	1	F2	0017-00003-0184
FUSECLIP	6	FC1A,FC1B,FC2A, FC2B,FC3A,FC3B	0017-00003-0214
KK 156 (RA) (5)	2	J1,J2	3000-16387-0500
KK 156 (RA) (6)	1	J1	3000-16387-0600
KK 156 (RA) (13)	1	J2	3000-16387-1300
SCREW 4-40x10	4	MHU1,MHQ1,MHQ2	0017-00101-0727
WSH 4 120-.250-018	4	" " "	0017-00104-0071
HEXNUT 4-40	4	" " "	0017-00103-0002
SHOULDER WSH	4	" " "	0017-00042-0109
THERMAL COMPOUND	AS REQ.	" " "	0017-00009-0204
TO-220,INSULATOR	2	MHU1,MHQ1	0017-00003-0205
TO-3 INSULATOR	1	MHQ2	0017-00042-0108
TIE WRAPS	3	TW1-TW3	0017-00042-0105
PCB	1		

A080-90414-C935

DIM TOLERANCES UNLESS OTHERWISE SPEC		
CONCENTRICITY TIR .002		
FRACTIONAL	± 1/64	
DECIMAL	± .000	
HOLE DIA	+.002 -.000	
ANGLE	± 1/2°	
DO NOT SCALE DWG		

DIM TOLERANCES UNLESS OTHERWISE SPEC		
CONCENTRICITY TIR .002		
FRACTIONAL	± 1/64	
DECIMAL	± .000	
HOLE DIA	+.002 -.000	
ANGLE	± 1/2°	
DO NOT SCALE DWG		

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DECIMAL	± .000	
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DECIMAL	± .000	
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DECIMAL	± .000	
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DECIMAL	± .000	
HOLE DIA	+.002 -.000	
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DO NOT SCALE DWG		

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CONCENTRICITY TIR .002		
FRACTIONAL	± 1/64	
DECIMAL	± .000	
HOLE DIA	+.002 -.000	
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DIM TOLERANCES UNLESS OTHERWISE SPEC		
CONCENTRICITY TIR .002		
FRACTIONAL	± 1/64	
DECIMAL	± .000	
HOLE DIA	+.002 -.000	
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DIM TOLERANCES UNLESS OTHERWISE SPEC		
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DECIMAL	± .000	
HOLE DIA	+.002 -.000	
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DO NOT SCALE DWG		

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FRACTIONAL	± 1/64	
DECIMAL	± .000	
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FRACTIONAL	± 1/64	
DECIMAL	± .000	
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CONCENTRICITY TIR .002		
FRACTIONAL	± 1/64	
DECIMAL	± .000	
HOLE DIA	+.002 -.000	
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CONCENTRICITY TIR .002		
FRACTIONAL	± 1/64	
DECIMAL	± .000	
HOLE DIA	+.002 -.000	
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CONCENTRICITY TIR .002		
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DECIMAL	± .000	
HOLE DIA	+.002 -.000	
ANGLE	± 1/2°	
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DIM TOLERANCES UNLESS OTHERWISE SPEC		
CONCENTRICITY TIR .002		
FRACTIONAL	± 1/64	
DECIMAL	± .000	
HOLE DIA	+.002 -.000	
ANGLE	± 1/2°	
DO NOT SCALE DWG		

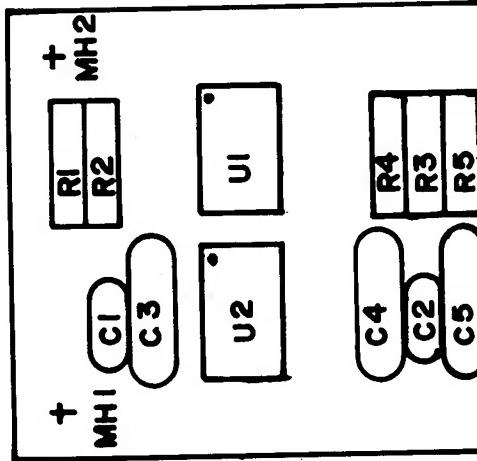
DIM TOLERANCES UNLESS OTHERWISE SPEC		
CONCENTRICITY TIR .002		
FRACTIONAL	± 1/64	
DECIMAL	± .000	
HOLE DIA	+.002 -.000	
ANGLE	± 1/2°	
DO NOT SCALE DWG		

DIM TOLERANCES UNLESS OTHERWISE SPEC		
CONCENTRICITY TIR .002		
FRACTIONAL	± 1/64	
DECIMAL	± .000	
HOLE DIA	+.002 -.000	
ANGLE	± 1/2°	
DO NOT SCALE DWG		

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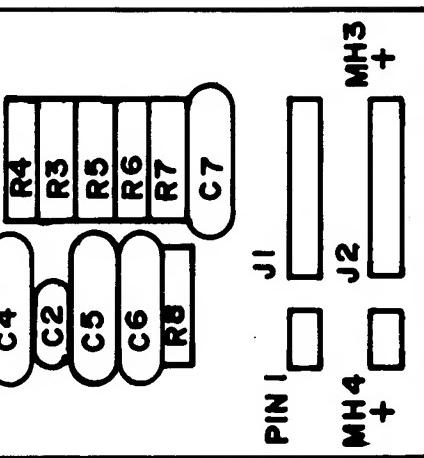
<u>DESIGNATION</u>	<u>DESCRIPTION</u>					
C1, C2	.1MF 100V MYLAR					
C3-C7	.01MF 25V AX CER					
RI-R4	IMEG OHM 1/4w 5% CRBN RES					
R5	"	"	"	"	"	"
R6	1K	"	"	"	"	"
R7	68	"	"	"	"	"
R8	IK	"	"	"	"	"
R8	68	"	"	"	"	"
U1	LM556					
U2	7400					
J1,J2	KK.156 VERT 2(6-PIN) 2(2-PIN)					
MH1-MH4	SNAP BUSHING 1/4"					



PROJECT ENG: JERRY SZERSZ

DIM. TOLERANCES		G
UNLESS OTHERWISE SPEC		
CONCENTRICITY TIR	002	
FRACTIONAL	± 1/64	
DECIMAL	± 005	
HOLE DIA	+ .002 -- -.000	
ANGLE	± 1/2°	
DO NOT SCALE DWG		

### CROSS REFERENCE LIST



<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>DESIGNATION</u>	<u>PART #</u>
.01MF 25VAX CER	5	C3-C7	0508-00800-0800
.1MF 100V 10% MYLAR	2	C1, C2	0508-00800-2300
68 OHM 1/4w 5% CRBN RES.	2	R6, R8	0062-098B3-IXXX
" " " "	2	R5, R7	0062-179B3-IXXX
1MEG " " " "	4	R1-R4	0062-323B3-IXXX
LM556	1	U1	0508-00803-5500
7400	1	U2	0508-00803-5600
KK.156 CON. (2-PIN)	2	J1, J2	3000-16335-0200
(6-PIN)	2	J1, J2	3000-16335-0600
MOUNTING HARDWARE SNAP BUSHING 1/4"	4	MHI-MH4	0017-00042-0014
RAPID FIRE P.C.	1	A080-91410-A000 A080-91410-A000	

ERSZEN

THIS DRAWING IS CONFIDENTIAL & PROPERTY OF MIDWAY MFG. CO.

GALAGA

DATE 09-30-81 SCALE FULL



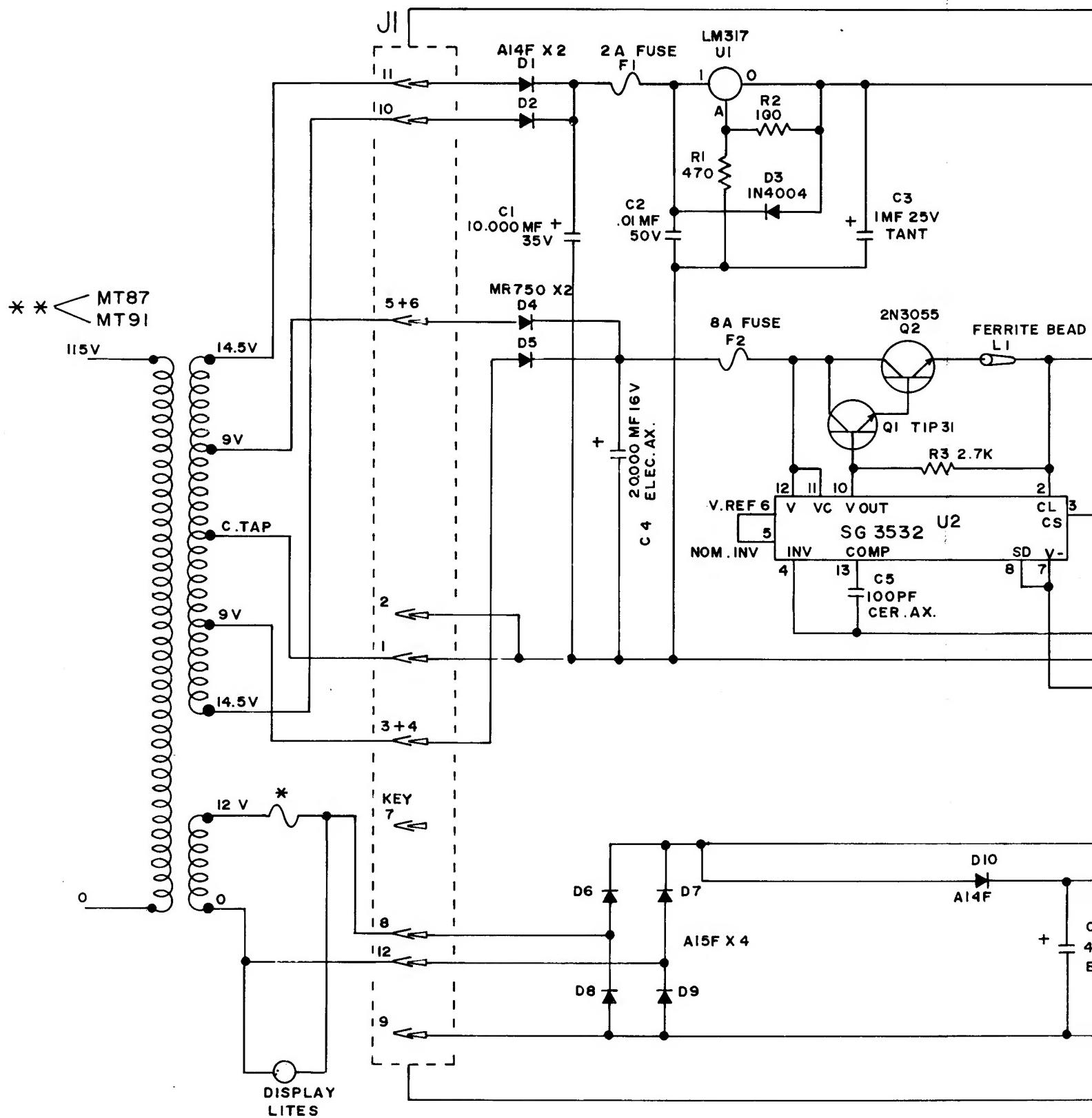
**MIDWAY MFG. CO.**  
FRANKLIN PK., IL. 60131 A BALLY CO.

REVISIONS

HK MATE  
FINISH

RAPID FIRE P.C.  
ASSEMBLY DRAWING  
A082-91410-A000

PART NO  
M051-00114-A001



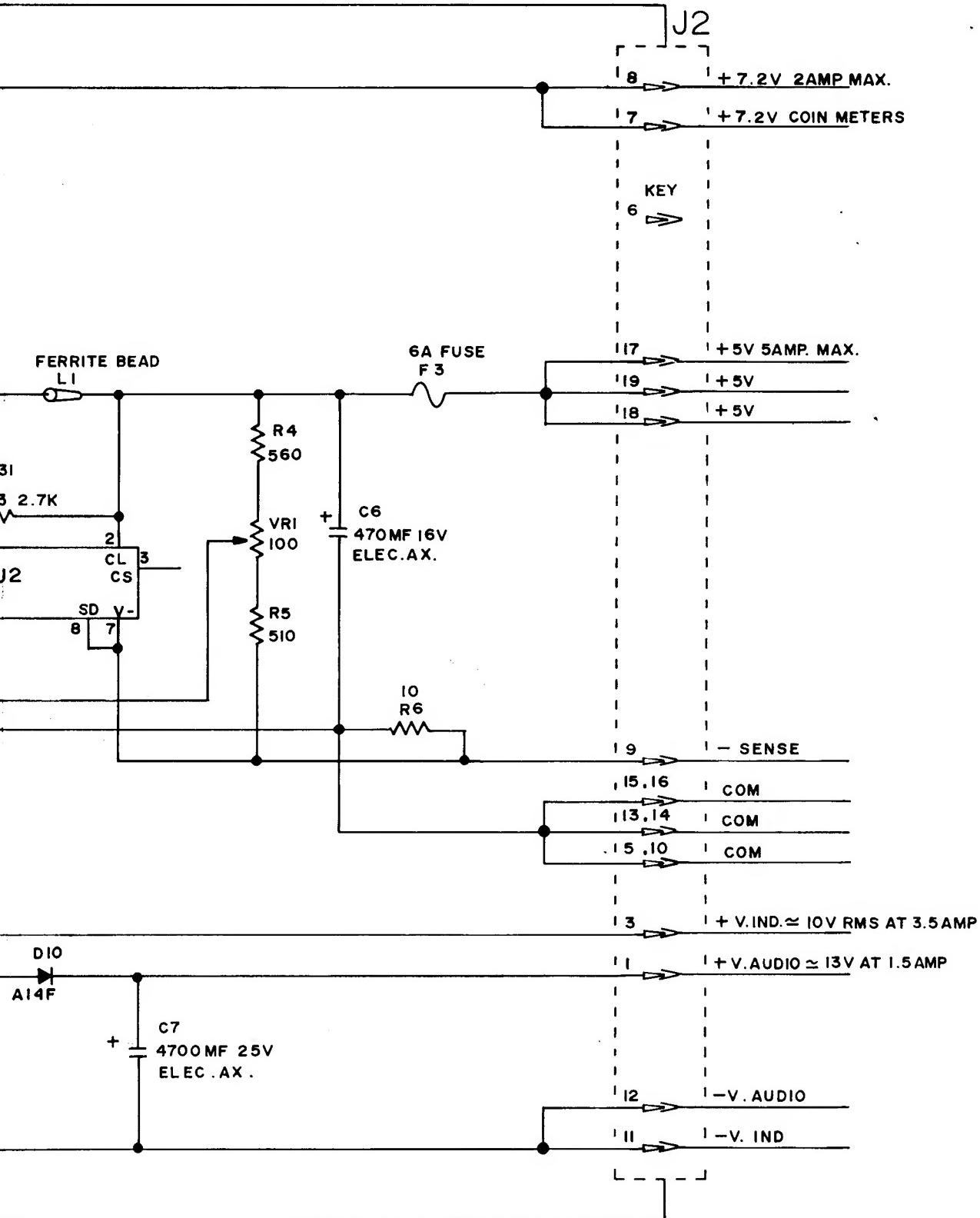
#### NOTES:

\* 2AMP FUSE W/O DISPLAY LITES

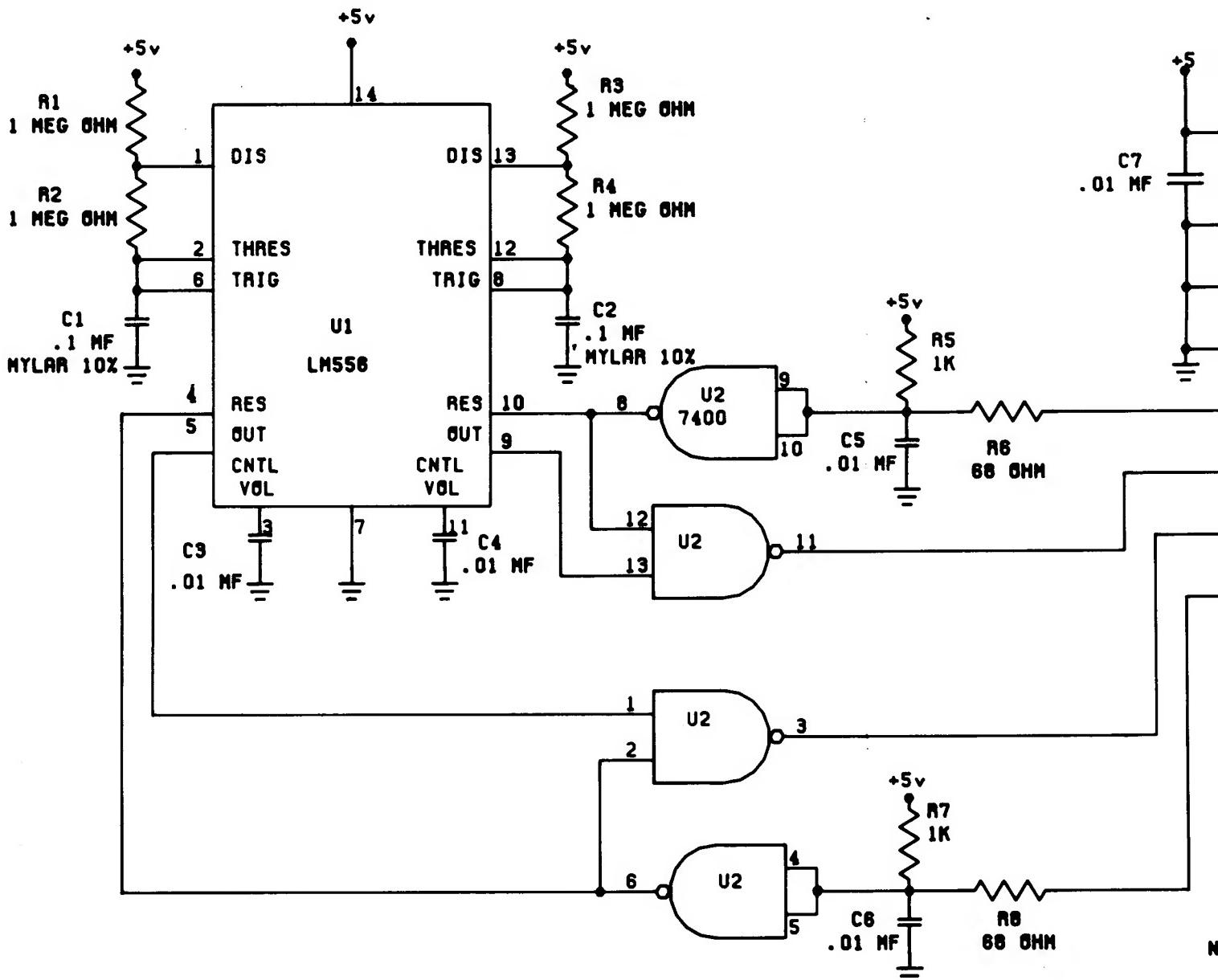
\*\* MT87 FOR UR.

MT91 FOR C.T.

DO NOT SCALE D		
DIM TOLERANCES UNLESS SPECIFIED	DRN	
CONCENTRICITY TIR .001		
FRACTIONAL .1/64		
DECIMAL .005		
POLE DIA + .002 .000		
DATE		

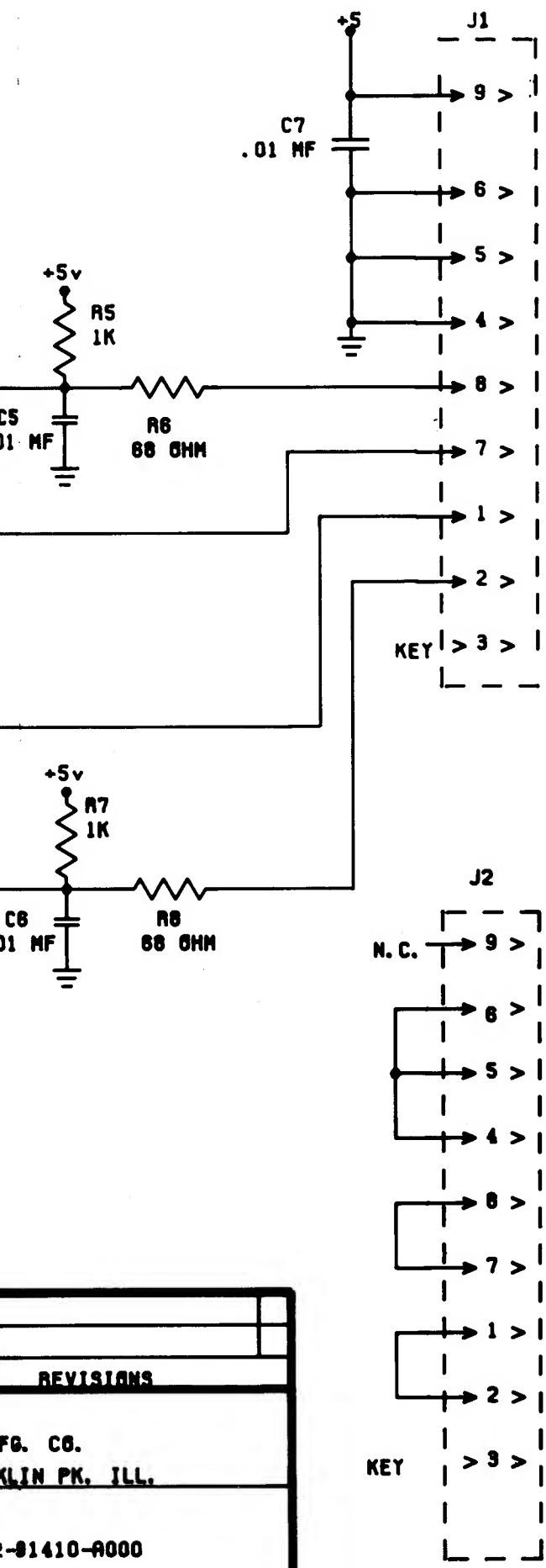


DO NOT SCALE DWG		HEAT TREAT	SCALE FULL	USED ON RALLY-X	MIDWAY MFG. CO.
DIM TOLERANCES UNLESS SPECIFIED		DHN <u>m.m.</u>	NO. REQ'D 1 PER	FRANKLIN PK ILL	
CONCENTRICITY TIR .003	CKD 1	MATL	ART NO. M051-00935-C025		
FRACTIONAL 1/16	FINISH	SCHEMATIC POWER SUPPLY A084-90414-C035			
CIMAL .005					
OLE DIA + .002 .000	DATE 2-10-82				



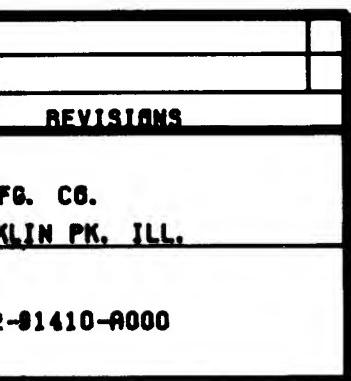
M051-00114-A002

CKD. <i>V.S.</i>	DO NOT SCALE DNG.				
DRN. TJK	DATE 9/30/81	USED ON	GALAGA	REVISIONS	
heat treat	scale FULL	NO. REQ'D	1 PER	MIDWAY MFG. CO.	
mat'l.	RAPID FIRE P.C.			FRANKLIN PK. ILL.	
finish				PART NO.	A082-81410-A000



NOTE: USE J1  
FOR RAPID  
FIRE OPTION

NOTE: USE J2 TO  
BYPASS  
RAPID FIRE  
OPTION



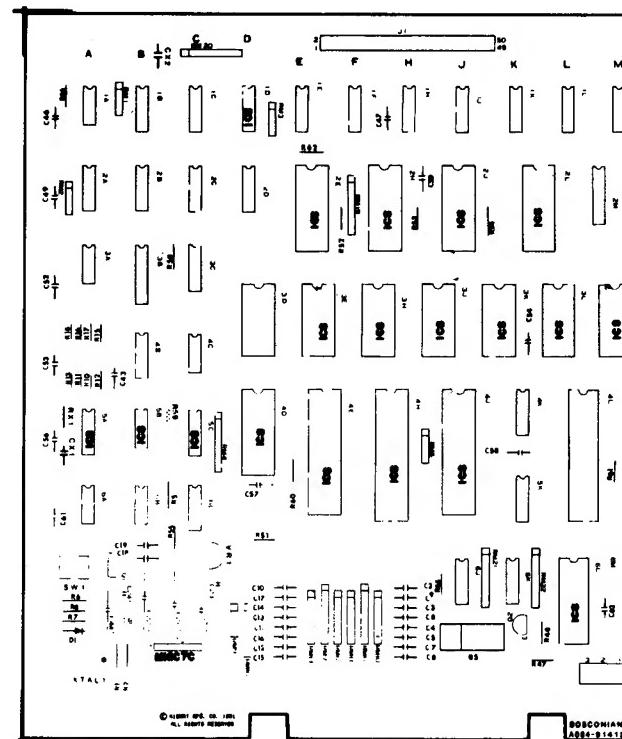
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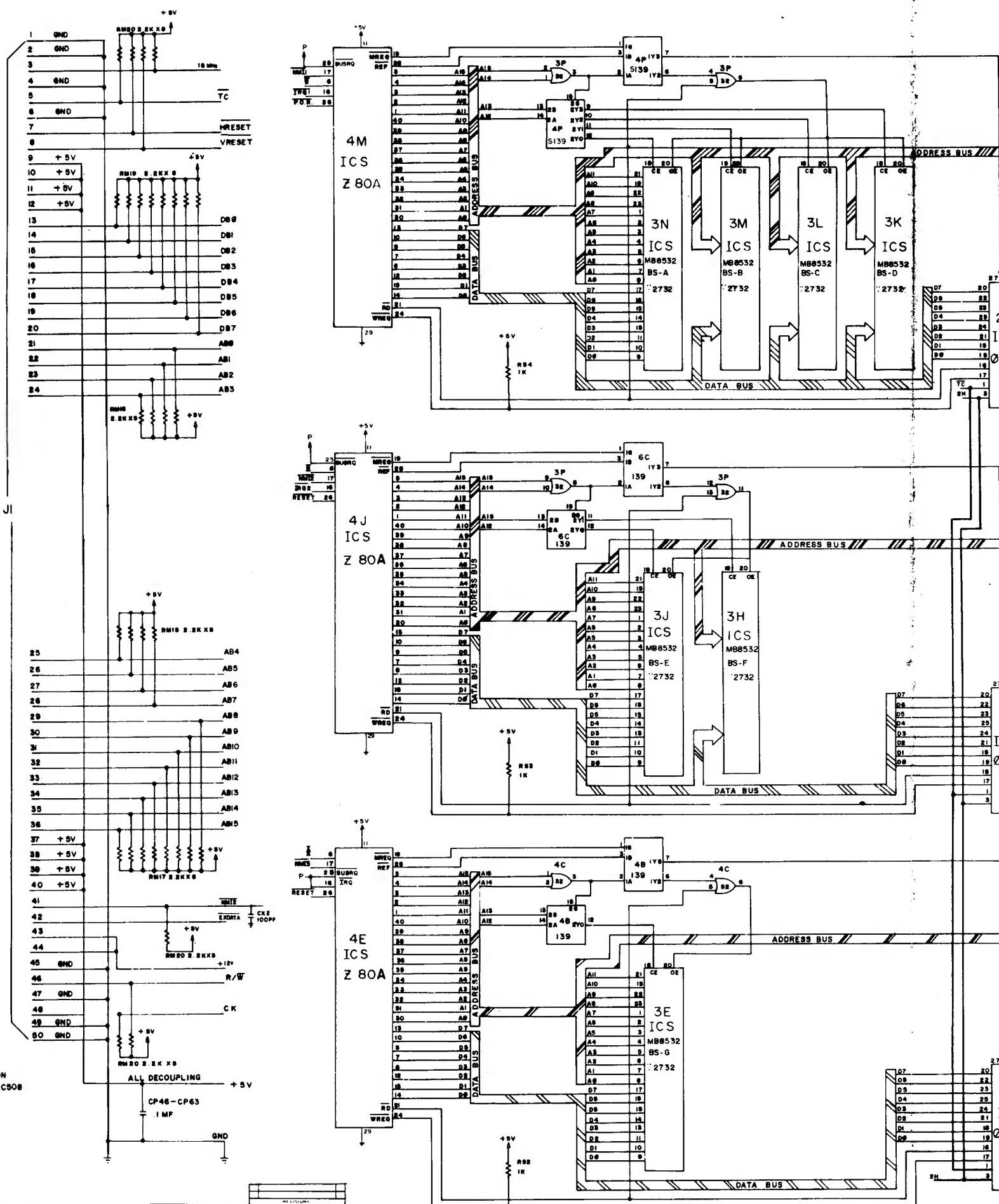
DESCRIPTION	QUAN.	DESIGNATION	PART NO.	DESCRIPTION	QUAN.	DESIGNATION	PART NO.
100 PF CER.	2	CAB,CX2	0880-00800-0900	FROM 88-1		IC 10	0880-00800-3100
.001 MF POLY.	2	CAB,CB1	0880-00800-1100	" 88-2		* SC	0880-00800-3200
.01 MF "	1	CAB	0880-00800-0900	EPRM 88-A		* SR	0880-00800-3200
.01 MF "	17	C2-C17,C18	0880-00800-0700	" 88-B		3M	0880-00800-3400
.1 MF POLY.	4	CAB-CAB	0880-00800-1000	" 88-C		SL	0880-00800-3500
.1 MF CER.	19	C18,C49-C43	0880-00800-0900	" 88-D		SK	0880-00800-3600
.16 MF TANT.	2	CAB,C49	0880-00800-1800	" 88-E		SJ	0880-00800-3700
.10 MF ELEC.	2	CAB,C44	0880-00800-1700	" 88-F		SH	0880-00800-3800
.22 MF "		CAB	0880-00800-1600	" 88-G		SE	0880-00800-3900
100 MF "		CAB	0880-00800-1800	STATIC RAM 2KX8		SI	0880-00800-3900
250 MF "		CAB	0880-00800-1400	Z-BOA	3	SI	0880-00800-3900
470 MF "		C1	0880-00800-1900			4E,4J,4H	0880-00800-3900
100 OHM 1/4W 5% CREW	1	R5	0888-1088-1XXX	16 PIN SOCKET	1	IC8 88	0880-00804-0800
330 "	2	R1,82	0888-1488-1XXX	16 "	5	* 10,8A,8C	0880-00804-0700
470 "	3	704,867,868	0888-1688-1XXX	84 "		* 2L,3L,4L,5L,6L,7L,8L,9L	0880-00804-0800
1K "	18	96,116,126,136,156,166	0888-1788-1XXX	28 "	7	* 2L,3L,4L,5L,6L,7L,8L,9L	0880-00804-0800
		RX1		40 "	3	* 4E,4J,4H	0880-00804-0800
				42 "	1	4H	0880-00804-0700
2.8K "	2	R17,R20	0888-1988-1XXX				
3.3K "	2	R20,R20	0888-2088-1XXX	16.432 MHZ CRYSTAL	1	Xtal 1	0880-00804-1100
4.7K "	8	R16,R25,R29,R43,R65	0888-2188-1XXX	ARC-8 PB SWITCH	1	SW1	0880-00804-1800
10K "	11	R7,R8,R10,R12,R20,R34	0888-2278-1XXX	8 POS. DIP SWITCH	2	DIP8W1,01P8W2	0880-00804-1400
		R37,R44,R61,R65		CONN. R.A. HEADER. SOPIN	1	J1	0880-00804-0800
		RH1,R22,R27,R31,R41,R46	0888-2458-1XXX	CORN. PCB HEADER. 8 PIN	1	J2	0017-00801-0400
		R51,R56	0888-2518-1XXX				
		R62,R62	0888-2618-1XXX	MOUNTING HARDWARE			
		R63,R64	0888-2718-1XXX	4-60 HEX NUT	2	MNPCTC	0017-00101-0000
150K "	2	R25,R42	0888-2818-1XXX	4-60K8 SLT PAM. M.S.	2		0017-00101-0510
250K "	1	R42	0888-2918-1XXX	WN 4.125-250-008 FILT. ST	2		0017-00101-0510
470K "	1	R40	0888-3078-1XXX	WN 4.120-250-010 EXT. ST.	2		0017-00101-0000
220 OHM 9 PIN	1	RMI	0880-00804-1800				
1K " 9 PIN	8	RMI-RMS,RMB,RMD	0880-00804-1900	BOSCHIAN CPU PC.	1		
1K " 9 PIN	3	RMI,RMS,RM7	0880-00804-1800				
2.2K " 9 PIN	4	RMI0-RMI8	0880-00804-1800				
2.2K " 9 PIN	4	RMI7-RM20	0880-00804-1800				
4.7K " 9 PIN	2	RMI1,RM22	0880-00804-1700				
1K POT	1	VRI	0880-00804-1800				
IN948	1	DI	0880-00801-0100				
2N3201A		Q1	0880-00808-0800				
2N4405		Q2	0880-00808-0100				
TIP110		Q3	0880-00808-0300				
088X CUSTOM IC		IC8L	0888-008CX-XAPX				
079X "		-40	0888-008CX-XAPX				
088X "	3	2E,2H,2J	0888-007CX-XAPX				
50XX "		-4H	0888-018CX-XAPX				
54XX "		-GM	0888-008CX-XAPX				
74LS32	2	3P,4C	0880-00803-0800				
74899	2	SA,28	0880-00803-0300				
74897		-GB	0880-00803-7200				
74LS107		IA	0880-00803-0800				
74LS126		-GB	0880-00803-0400				
74LS138	2	IP,2P	0880-00803-0700				
74LS151		-PA	0880-00803-0500				
74LS158	2	-49,8C	0880-00803-1000				
74LS161	2	-4K,8K	0880-00803-1100				
74LS167		-BD	0880-00803-1800				
74LS168		-IC	0880-00803-1800				
74LS174		-2M	0880-00803-1400				
74LS245		-SC	0880-00803-1800				
74LS250		-3B	0880-00803-1600				
74LS273		-IB	0880-00803-1700				
74LS283		-IE,IF,IH,IJ,IK,IL,IM,IN	0880-00803-0800				
74LS286		-ME	0880-00803-1800				
74LS295		-6A	0880-00803-0800				
LMS34		-SP	0880-00803-0800				
MS370D		-7C	0888-185XX-XXAX				
401720000		-EA	0880-00803-5300				

PROJECT ENG: J. ZERZEN		HEAT TREAT		USED ON BOSCONIAN		REVISIONS	
DO NOT SCALE DNG		SCALE		NO REQD		MIDWAY MFG. CO.	
DIM TOLERANCES UNLESS SPECIFIED: CONVENTIONAL T-0.0005 SPECIAL T-0.00025		MATERIAL		PER		FRANKLIN PK. ILL.	
U.S.		FINISH		BOSCONIAN CPU BD. AO 84-91412-B580 A257 DRWNS.		PART NO. M05-00550-B010	

## DESIGNATION LIST

DESIGNATION	DESCRIPTION	DESIGNATION	DESCRIPTION
C1	470 MF ELEC.	O1	IN614B
C5-C17	.01 MF CER.	O2	SN5391A
C18	.1MF "	O3	2N4440S
C19	.01 MF "	O4, O4	NOT USED
C20	220 MF ELEC.	O5	TIP 110
C21	220 MF "		
C22	100 MF TANT.	IC 1A	74LS07
C23, C24	10 MF ELEC.	" 1B	74LS285
C25	.01 MF POLY.	" 1C	74LS174
C26, C27	.001 MF CER.	" 1D	PROG 88-1
C28, C29	NOT USED	" 1E	74LS387
C30-C48	.0002 MF CER.	" 1F	74LS198
C43	10 MF ELEC.	" 1G	74LS00
C44	100 PF CER.	" 1H	74LS187
C45	100 PF CER.	" 1I	74LS286
C46-C48	.1 MF "	" 1J	68XX CUSTOM IC
CX1	NOT USED	" 1K	68XX "
CX2	100 PF CER.	" 1L	74LS245
R1, R2	250 OHM 1/4w 5% CRBN.	" 1M	STATIC RAM 2Kx8
R3, R4	NOT USED	" 1N	74LS286
R5	100 OHM 1/4w 5% CRBN.	" 1O	4066 CMOS
R6	" "	" 1P	74LS273
R7, R8	10K "	" 1Q	74LS286
R9	NOT USED	" 1R	NOT USED
R10	10K OHM 1/4w 5% CRBN.	" 1S	EPROM 88-8
R11	25K "	" 1T	100PF-7
R12	47K "	" 1U	100PF-5
R13	100K "	" 1V	100PF-0
R14	NOT USED	" 1W	100PF-C
R15	470 OHM 1/4w 5% CRBN.	" 1X	100PF-B
R16	" "	" 1Y	100PF-A
R17	2.2K "	" 1Z	74LS282
R18	4.7K "	" 1AA	74LS199
R19	10K "	" 1AB	74LS282
R20	33K "	" 1AC	OTIXX CUSTOM IC
R21	33K "	" 1AD	Z-50A
R22	250K "	" 1AE	SIXX CUSTOM IC
R23	25K "	" 1AF	Z-50A
R24	100K "	" 1AG	74LS181
R25	4.7K "	" 1AH	NOT USED
R26	10K "	" 1AI	Z-50A
R27	25K "	" 1AJ	74LS00
R28	47K "	" 1AK	74LS286
R29	4.7K "	" 1AL	74LS07
R30	10K "	" 1AM	PROM 88-2
R31	25K "	" 1AN	74LS199
R32	47K "	" 1AO	LMS284
R33	10K "	" 1AP	74LS283
R34	100K "	" 1AQ	74LS286
R35	100K "	" 1AR	68XX CUSTOM IC
R36	10K "	" 1AS	68XX "
R37	2.2K "	" 1AT	MS3730
R38	2.2K "		
R39	2.2K "		
R40	470K "		
R41	2.2K "		
R42	100K "		
R43	4.7K "		
R44	10K "		
R45	25K "		
R46	47K "		
R47, R48	470 "		
R49, R50	NOT USED		
R51	10K OHM 1/4w 5% CRBN.	Xtal 1	10.432 MHZ CRYSTAL
R52-R54	10K OHM 1/4w 5% CRBN.	BW 1	ARC-8 PB SWITCH
R55	" "	DIP SW 64,0K	8 POS. DP SWITCH
R56, R57	" "	J1	CONN. R. J. 45 60 PW
R58	NOT USED	J2	CONN. R. J. 45 60 PW
R59	10K OHM 3 PIN SIP.	MINI7C	CONN. R. J. 45 60 PW
R60	25K OHM 3 PIN SIP.		CONNECTOR HEADER 3 PIN
R61-R62	25K OHM 3 PIN SIP.		MOUNTING HARDWARE
R63, R64	4.7K OHM 1/4w 5% CRBN.		- (S)4-40 HEX NUT
R65	" "		- (S)4-40 X 8 BLT PAN M.S.
R66	10K OHM 3 PIN SIP.		- (S)W64-100-250-016 PLT ST
R67-R68	25K OHM 3 PIN SIP.		- (S)W64-100-250-016 EXT. ST
R69	NOT USED		
R70-R72	250 OHM 5 PIN ZIP.		
R73	25K " 5 PIN "		
R74	4.7K " 5 PIN "		
VR 1	IK POT	P.C.B.	BOBCOMAN CPU BD.





BASED ON

404-508

ALL DECOUPLING

+5V

CP46-CP63

.1MF

GND

DESIGNED BY JERRY SZERZEN

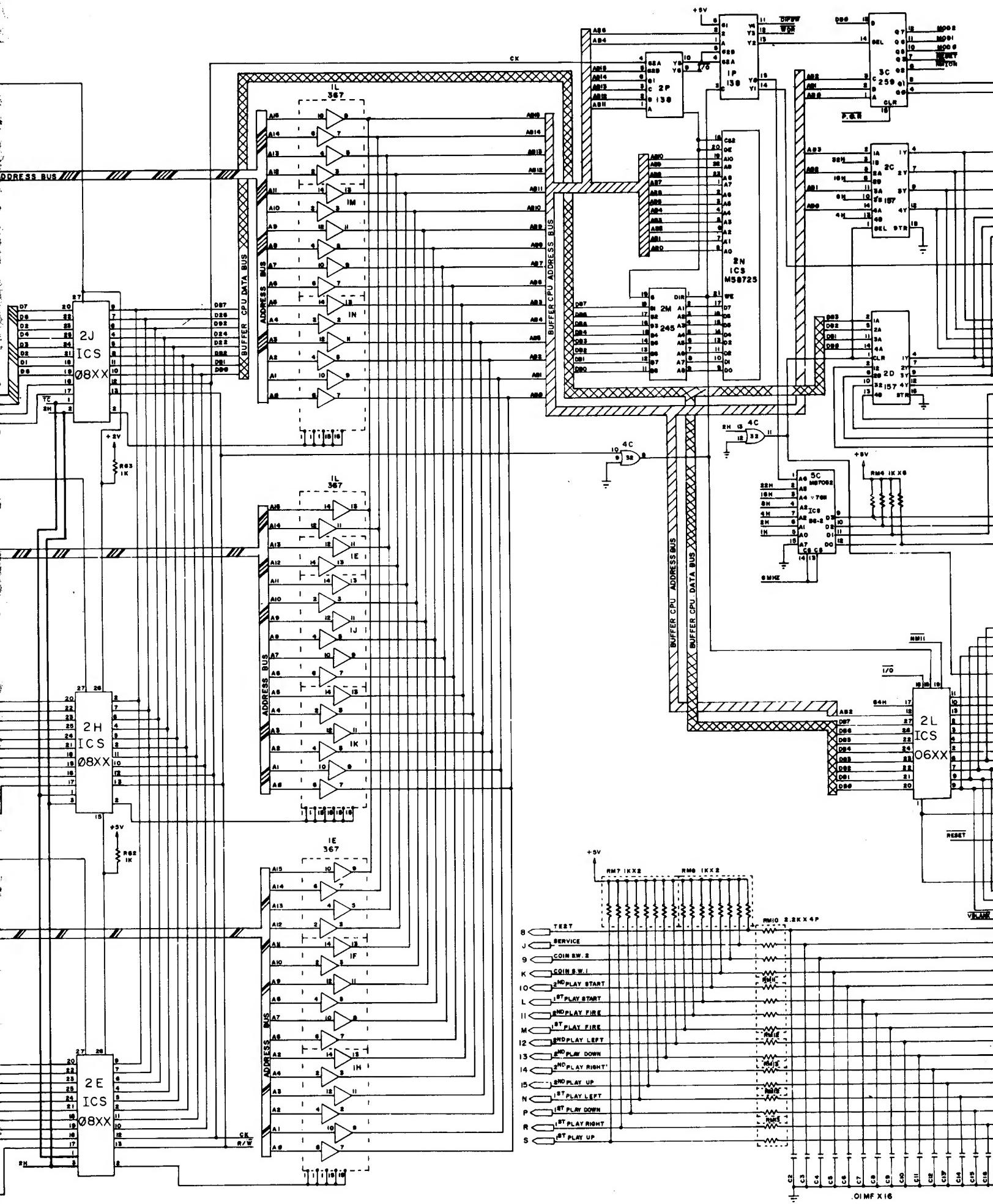
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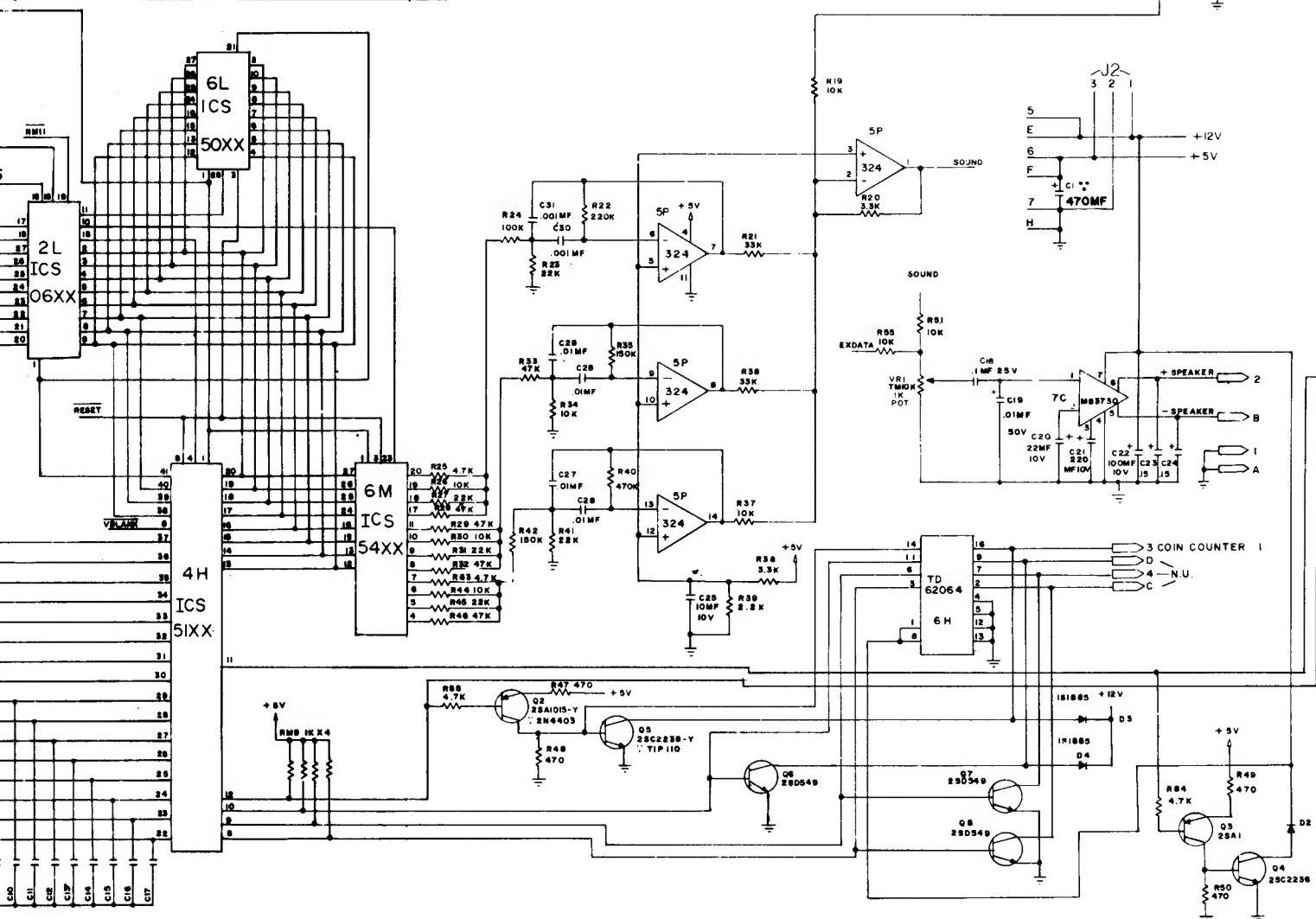
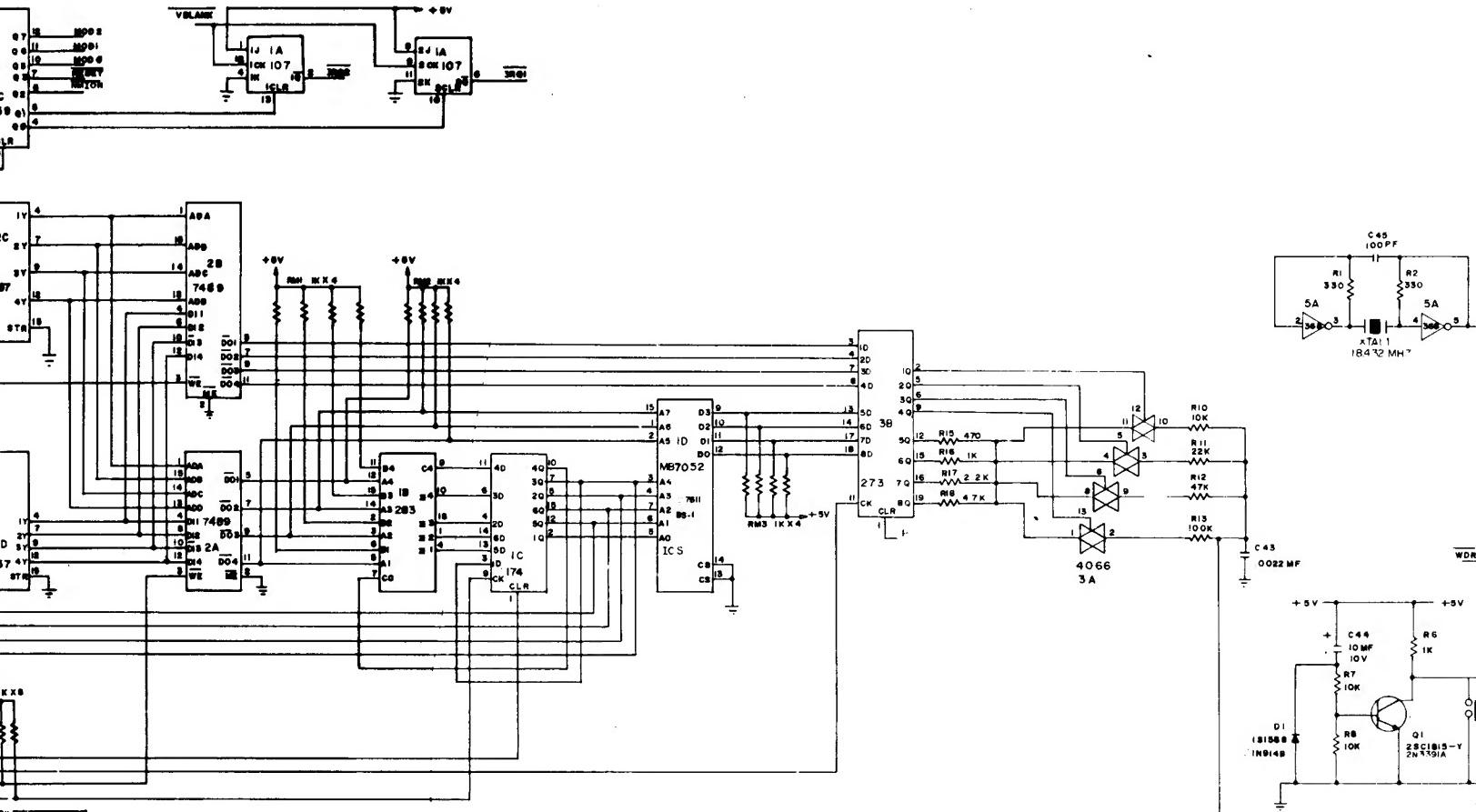
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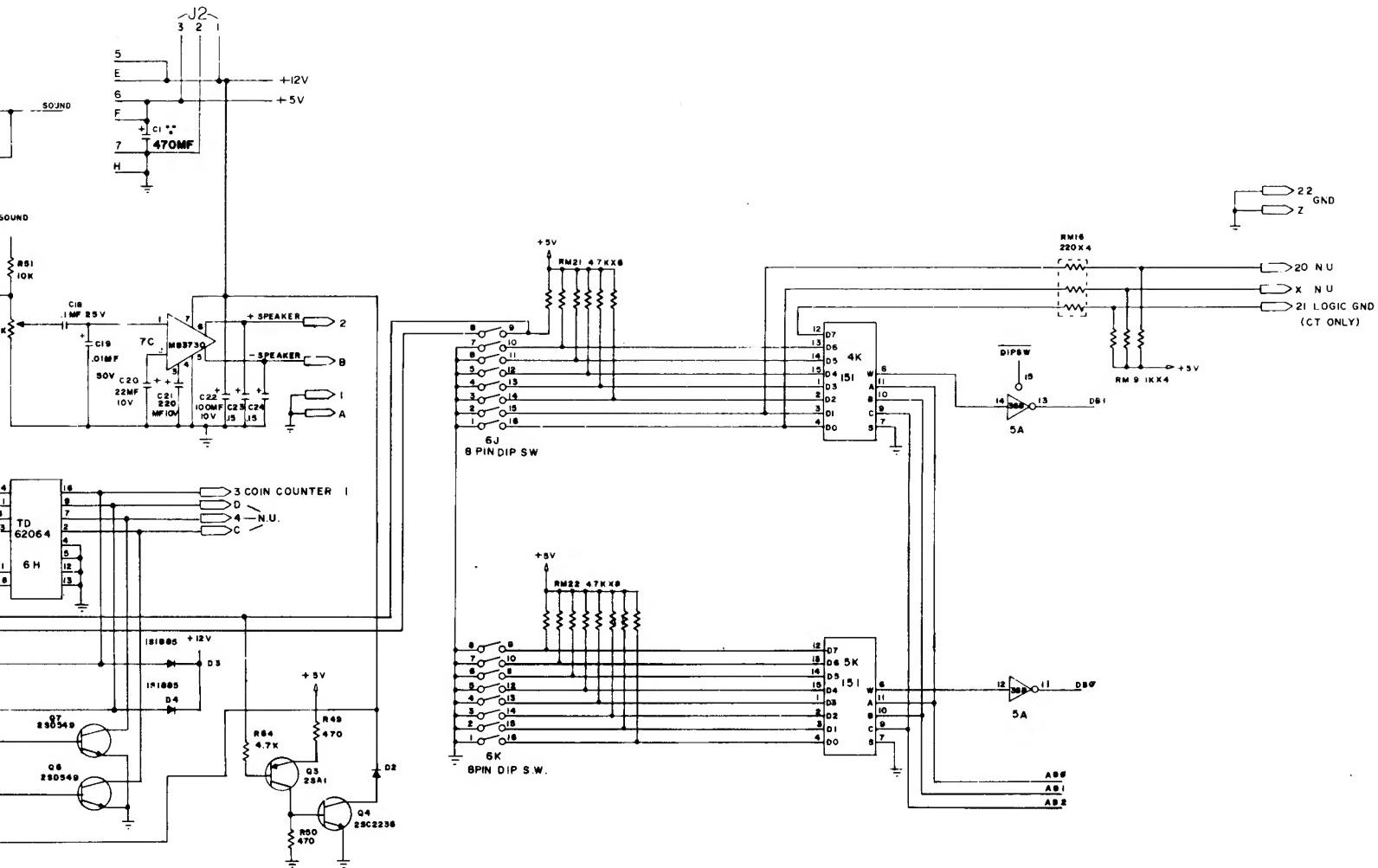
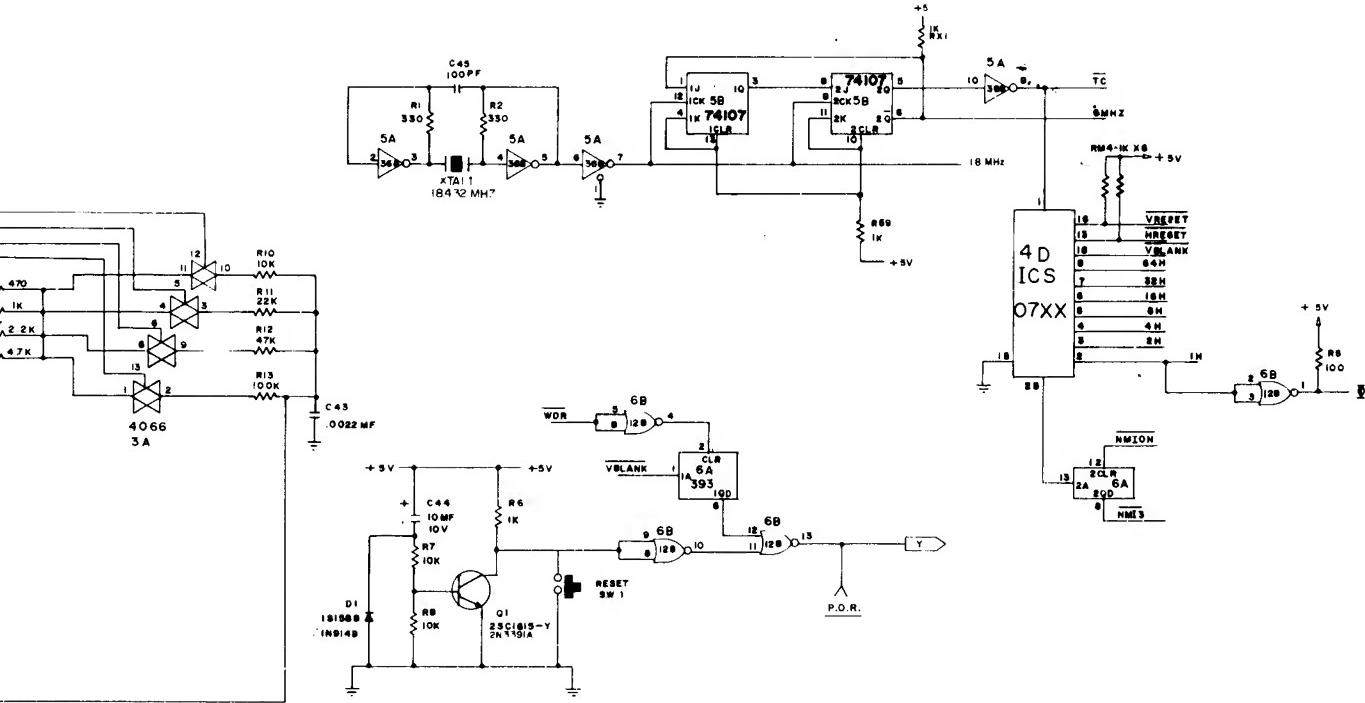
20-20

2/9/82

BOSCONIAN		MIDWAY MFG. CO.
FULL		I PER
20-20	BOSCONIAN CPU A084-9142-8550 SCHEMATIC	MOSI 00550 B011







# DESIGNATION LIST

DESIGNATION	DESCRIPTION	DESIGNATION	DESCRIPTION
C 1	470 MF ELEC.	IC 5F,5H	74LS174
C 4	.022 MF POLY.	" 5K	NOT USED
C 5,C6	.0047 MF "	" 5L	EPROM BS-L
C 7	.001 MF 100V 10% POLY	" 5M	" BS-K
C 8,C9	.001 MF 50V 10% CER.	" 5N	" BS-J
C10-C45	.1 MF CER.	" 5R	52XX CUSTOM IC
C46	220 PF MICA	" 6B	PROM BS-6
C47	.001 MF 50V 10% CER.	" 6C,6D	74LS194
C48	100 PF CER.	" 6E	74LS86
R 1	220 OHM 1/4w 5% CRBN.	" 6F,6H	74LS157
R 2	470 " " " "	" 6J	74LS86
R 3	220 " " " "	" 6K	74LS175
R 4	470 " " " "	" 6L	74LS08
R 5	1K " " " "	" 7C	74LS157
R 6	220 " " " "	" 7D	74LS174
R 7	470 " " " "	" 7E	74LS00
R 8	1K " " " "	" 7F	74LS08
R II	10K " " " "	" 7H	PROM BS-7
R12	22K " " " "	" 7J	74LS175
R13	47K " " " "	ICS IE	24 PIN SOCKET
R14,R15	100K " " " "	" 1H	" " "
R16	22K " " " "	" 1M	28 PIN "
R17	33K " " " "	" 1N	" " "
R18	47K " " " "	" 1R	" " "
R19	1K " " " "	" 2D	16 PIN "
R20	100 " " " "	" 2R	" " "
R21-R31	1K " " " "	" 4K	16 PIN "
R32	330 " " " "	" 4M	16 PIN "
RMI-RM4	2.2 K OHM 9 PIN SIP.	" 4N	16 PIN "
RM5, RM6	1K " " " "	" 5A	20 PIN "
RM7	470 " " " "	" 5B	24 PIN "
RM8-RM10	1K " " " "	" 5D	" " "
RMII	1K " 5 PIN "	" 5E	" " "
Q1,Q2	2N3391A	" 5L	" " "
IC 1B	74LS259	" 5M	" " "
" IC	74LS138	" 5N	" " "
" ID	74LS377	" 5R	42 PIN "
" IE,IH	PHAN. RAM 2K X8	" 6B	16 PIN "
" IJ, IK	74LS374	" 7H	" " "
" IM	06XX CUSTOM IC	PCMH1-PCMH4	DUALLOCKING SPACERS
" IN	60XX " "	J1	50 PIN RT. ANGLE
" IR	07XX " "	J2	6 PIN MNL CONN.
**" 2B	RAM KIT B OPTION 1	CABLE ASSY	AS BELOW
" 2C	74LS163	P1, P2	PLUG-SOCKET CONNECTOR 50-PIN
" 2D	PROM BS-3	CABLE	RIBBON CABLE-.33FT 50-CONNECTOR
" 2E	7489	A080-91413-B550	28 GA. STRND. RND. CONDUCTOR
" 2F,2H	74LS245	BOSCONIAN P.C.B.	
" 2J,2K,2L,2M	74LS263		
" 2N	74LS244		
" 2P	74LS257		
" 2R	PROM BS-4		
**" 3A,3B	RAM KIT B OPTION2		
" 3C,3D,3E,3F	74LS163		
" 3H	74LS263		
" 3J	74LS20		
" 3K	74LS263		
" 3L,3M	74LS66		
" 3N	74LS20		
" 3P	74LS66		
" 3R	74LS138		
" 4A	74LS174		
" 4B	74LS365		
" 4C	74LS273		
**" 4D,4E,4F,4H	RAM KIT A OPTION2		
" 4J	" " " "		
" 4K	03XX CUSTOM IC		
" 4L	74LS377		
" 4M	PROM BS-5		
" 4N	03XX CUSTOM IC		
" 4P	74LS368		
" 5A	PHAN. PAL BS-8		
" 5B	05XX CUSTOM IC		
" 5D	EPROM BS-P		
" 5E	" BS-N		

DESCRIPTION

74LS174  
NOT USED  
EPROM BS-L  
" BS-K  
" BS-J  
52XX CUSTOM IC  
PROM BS-6  
74LS194  
74LS86  
74LS157  
74LS86  
74LS175  
74LS08  
74LS157  
74LS174  
74LS00  
74LS08  
PROM BS-7  
74LS175

24 PIN SOCKET  
" " "  
28 PIN "  
" " "  
" " "  
16 PIN "  
" " "  
16 PIN "  
16 PIN "  
18 PIN "  
20 PIN "  
24 PIN "  
" " "  
" " "  
" " "  
" " "  
" " "  
42 PIN "  
16 PIN "

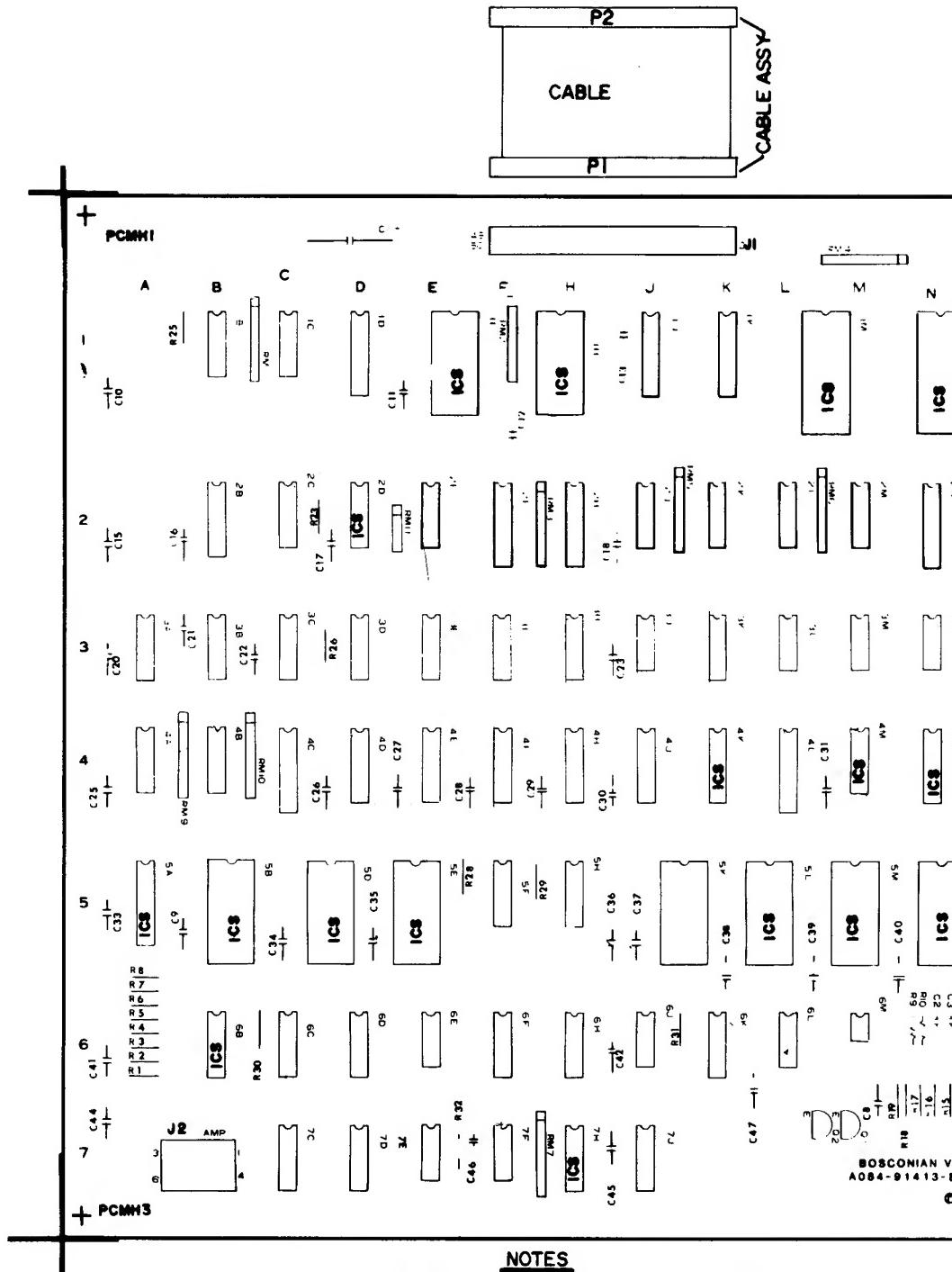
DUALLOCKING SPACERS

50 PIN RT. ANGLE  
6 PIN MNL CONN.

AS BELOW

PLUG-SOCKET CONNECTOR 50-PIN  
RIBBON CABLE-.33FT 50-CONNECTOR  
28 GA. STRND. RND. CONDUCTOR

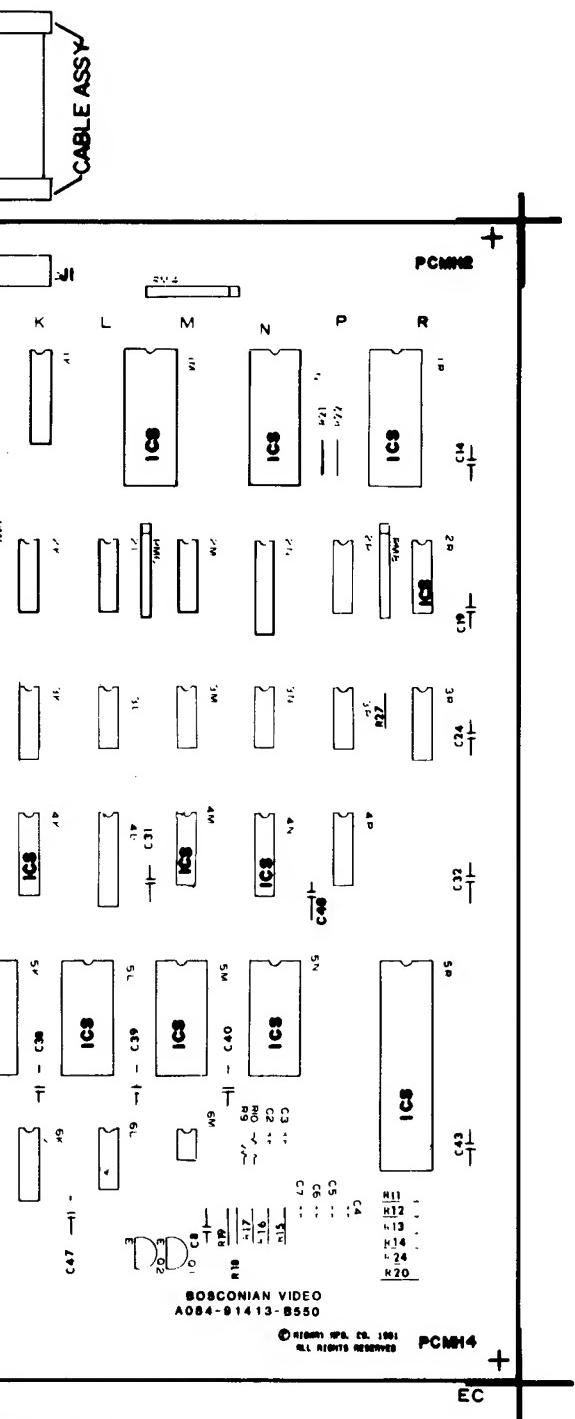
BOSCONIAN P.C.B.



NOTES

\* NOTE: RAM KIT A WILL UTILIZE EITHER OF THE FOLLOWING OPTIONS BUT NOT BOTH;  
OPTION 1-(1) 2148 LOC. 4J  
OR  
OPTION2-(4)2147 LOC. 4D,4E,4F,4H

\*\* NOTE: RAM KIT B WILL UTILIZE EITHER OF THE FOLLOWING OPTIONS BUT NOT BOTH;  
OPTION1-(1) 2148 LOC. 2B  
OR  
OPTION2-(2) HM25II LOC. 3A,3B



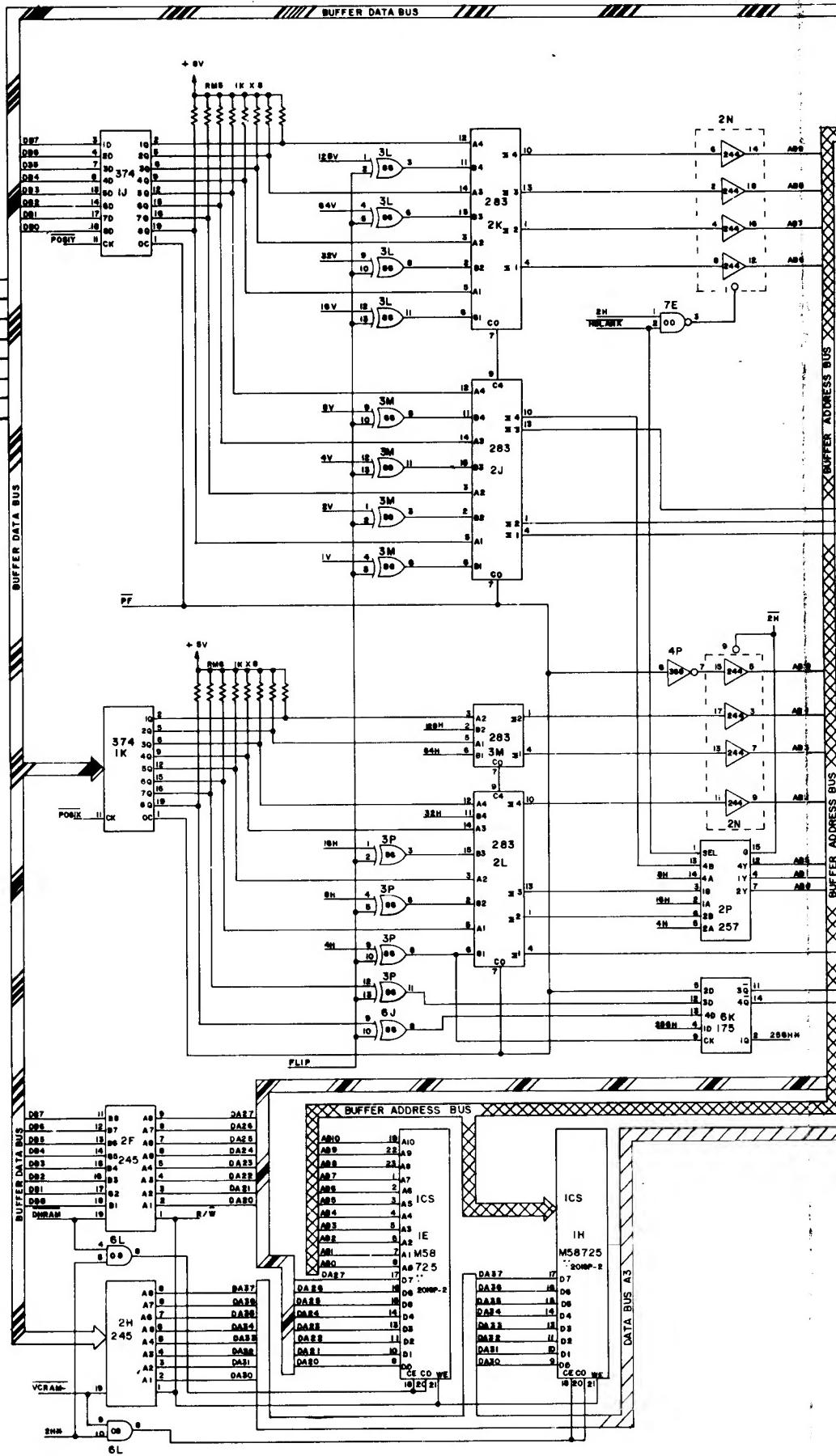
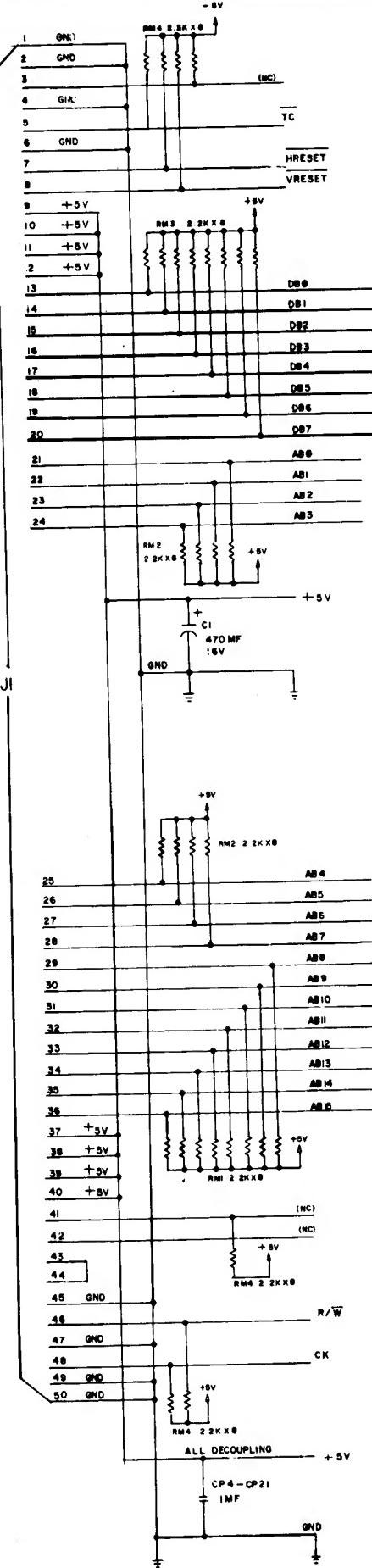
DESCRIPTION	QUAN.	DESIGNATION
100 PF CER	1	C48
220 PF MICA.	1	C46
.001 MF 100V 10% POLY.	1	C7
.001 MF 50V 10% CER.	3	C8,C9,C47
.0047 MF POLY.	2	C5,C6
.022 MF "	1	C4
.1 MF CER.	36	C10-C45
470 MF ELEC.	1	C1
100 OHM 1/4 w 5% CRBN	1	R20
220 " " " "	3	R1,R3,R6
330 " " " "	1	R32
470 " " " "	3	R2,R4,R7
1K " " " "	14	R5,R6,R19,R21-R31
10K " " " "	1	R11
22K " " " "	2	R12,R16
33K " " " "	1	R17
47K " " " "	2	R13,R18
100K " " " "	2	R14,R15
470 OHM 9 PIN SIP.	1	RM7
1K " " " "	5	RM5,RM6,RM8-RM10
1K " 5PIN "	1	RM11
2.2K " 9PIN "	4	RM1-RM4
2N3391A	2	Q1,Q2
03XX CUSTOM IC	2	IC 4K,4N
05XX " "	1	" 5B
06XX " "	1	" 1M
07XX " "	1	" 1R
50XX " "	1	" IN
52XX " "	1	" 5R
74LS00	1	IC 7E
74LS08	2	" 6L,7F
74LS20	2	" 3J,3N
74LS86	5	" 3L,3M,3P,6E,6J
7489	1	" 2E
74LS138	2	" IC,3R
74LS157	3	" 6F,6H,7C
74LS163	5	" 2C,3C,3D,3E,3F
74LS174	4	" 4A,5F,5H,7D
74LS175	2	" 6K,7J
74LS194	2	" 6C,8D
74LS244	1	" 2N
74LS245	2	" 2F,2H
74LS257	1	" 2P
74LS269	1	" 1B
74LS273	1	" 4C
74LS283	6	" 2J,2K,2L,2M,3H,3K
74LS365	1	" 4B
74LS368	1	" 4P
74LS374	2	" 1J,1K
74LS377	2	" 1D,4L
PROM BS-3	1	IC 2D
" BS-4	1	" 2R
" BS-5	1	" 4M
" BS-6	1	" 6S
" BS-7	1	" 7H
PHAN.PAL BS-8	1	" 5A
EPROM BS-J	1	" 5N
" BS-K	1	" 5M
" BS-L	1	" 5L
" BS-N	1	" 5E
" BS-P	1	" 5D
PHAN RAM 2K X8	2	" 1E,1H

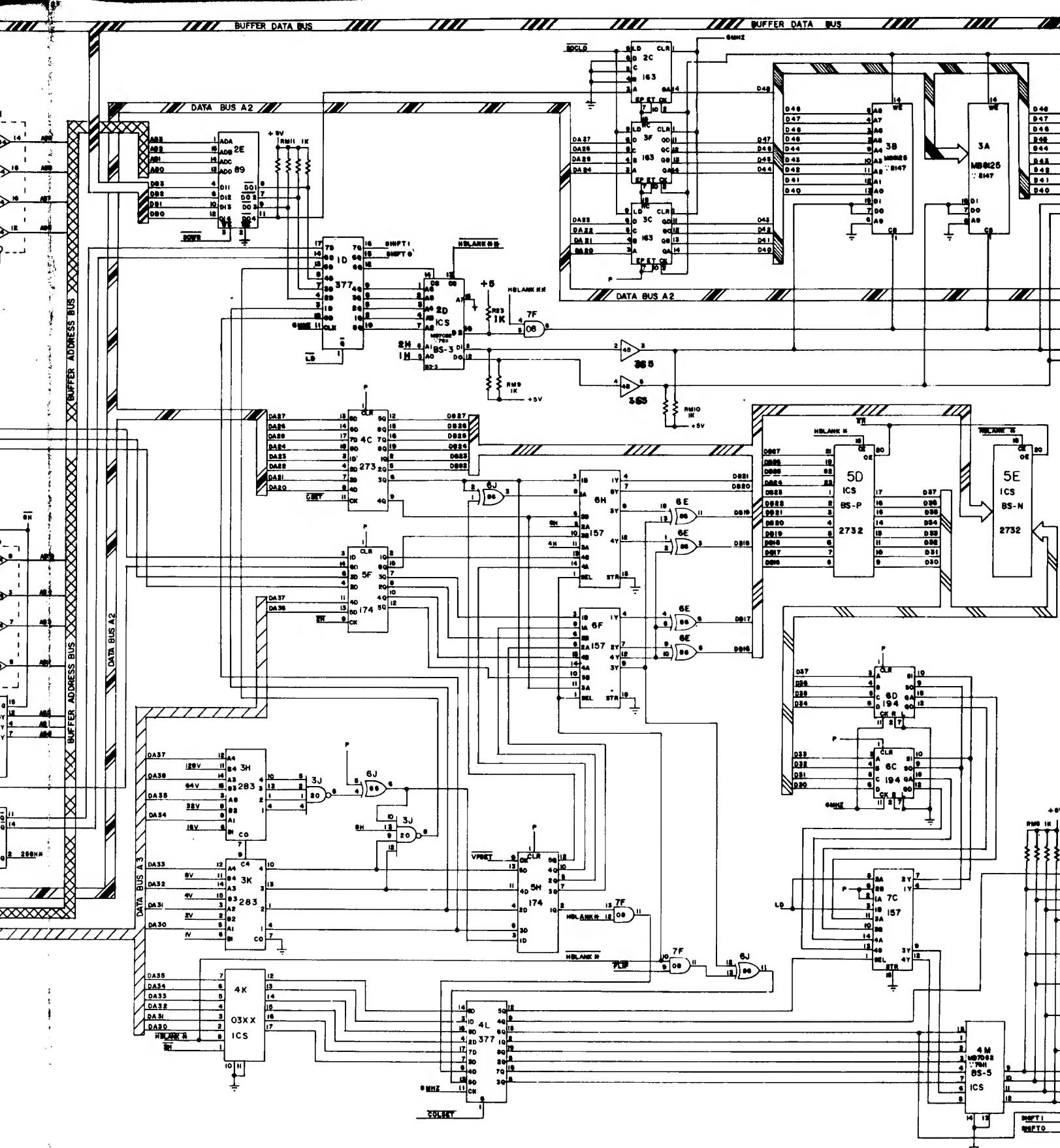
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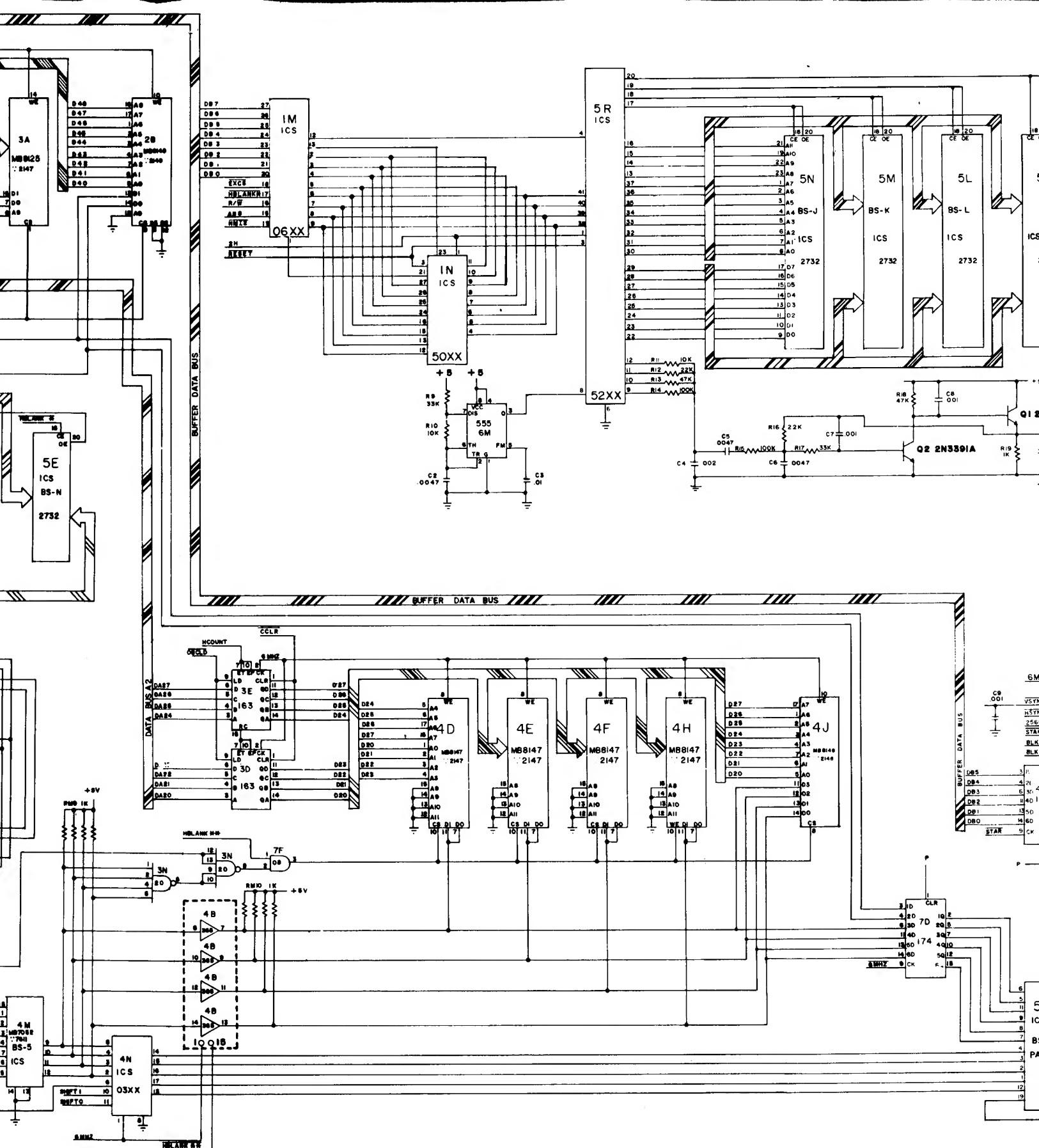
TION	PART NO.	DESCRIPTION	QUAN.	DESIGNATION	PART NO.
47	0550-00800-0900	PHAN.RAM A OPTIONS	1		0550-00803-6000
	0550-00800-2000	* RAM KIT A OPTIONS I	1	IC 4J	0550-00803-6200
	0550-00800-2100	* " " " "	2	" 4D,4E,4F,4H	0550-00803-6300
	0550-00800-2400	PHAN.RAM B OPTIONS	1		0550-00803-6100
	0550-00800-22C0	** RAM KIT B OPTIONS I	1	IC 2B	0550-00803-6400
5	0550-00800-2300	** " " " "	2	" 3A,3B	0550-00803-6500
	0550-00800-2500				
	0508-00800-1500				
8		16 PIN SOCKET	5	ICS-2D,2R,4M,6B,7H	0508-00804-0700
		18 PIN "	2	" 4K,4N	0508-00804-0600
	0062-11083-1XXX	20PIN "	1	" 5A	0550-00804-2300
	0062-13383-1XXX	24PIN "	8	" E,IH,5B,5D,5E,5L	0508-00804-0500
7	0062-14483-1XXX	28 PIN "	3	" 5M,5N	
19,R2I-R3I	0062-156B3-1XXX	42 PIN "	1	" IM,IN,IR	0508-00804-0400
	0062-179B3-1XXX			" 5R	0508-00804-1900
	0062-227B3-1XXX				
	0062-243B3-1XXX	6 PIN MIN. CONN.	1	J2	0017-00021-0424
	0062-251B3-1XXX	50 PIN RT. ANGLE CONN.	1	J1	0508-00804-0800
	0062-259B3-1XXX	DUAL LOCKING SPACERS	4	PCMHI-PCMHH4	0017-00042-0253
	0062-278B3-1XXX				
3,RM8-RM10	0550-00804-2400	CABLE ASSY.	1		0508-00804-2200
	0550-00804-2100	50-PIN PLUG-SOCKET CONNECTOR	2	PI,P2	0508-00804-0900
14	0550-00804-2000	RIBBON CABLE-.33FT	1	CABLE	0017-00033-0346
	0550-00804-2200	50-CONDUCTOR 28 GA. STRND AND CONDUCTOR			
		BOSCONIAN P.C.B	1		A080-91413-B550
	0550-00802-0400				
	0066-010CX-XAPX				
	0066-004CX-XAPX				
	0066-005CX-XAPX				
	0066-006CX-XAPX				
	0066-012CX-XAPX				
	0066-013CX-XAPX				
3P,6E,6J	0550-00803-3400				
	0550-00803-3500				
	0550-00803-3600				
	0550-00803-3700				
	0550-00803-3300				
	0550-00803-3800				
	0550-00803-3900				
	0550-00803-7100				
	0550-00803-4000				
	0550-00803-7000				
	0550-00803-6900				
	0550-00803-6800				
	0550-00803-4100				
	0550-00803-4200				
	0550-00803-4300				
	0550-00803-4400				
	0550-00803-4500				
	0550-00803-4600				
L,2M,3H,3K	0550-00803-4700				
	0550-00803-6700				
	0550-00803-4800				
	0550-00803-5500				
	0550-00803-5600				
	0550-00803-5700				
	0550-00803-5800				
	0550-00803-5900				
	0550-00803-6600				
	0550-00803-4900				
	0550-00803-5000				
	0550-00803-5100				
	0550-00803-5200				
	0550-00803-5300				
	0550-00803-5400				

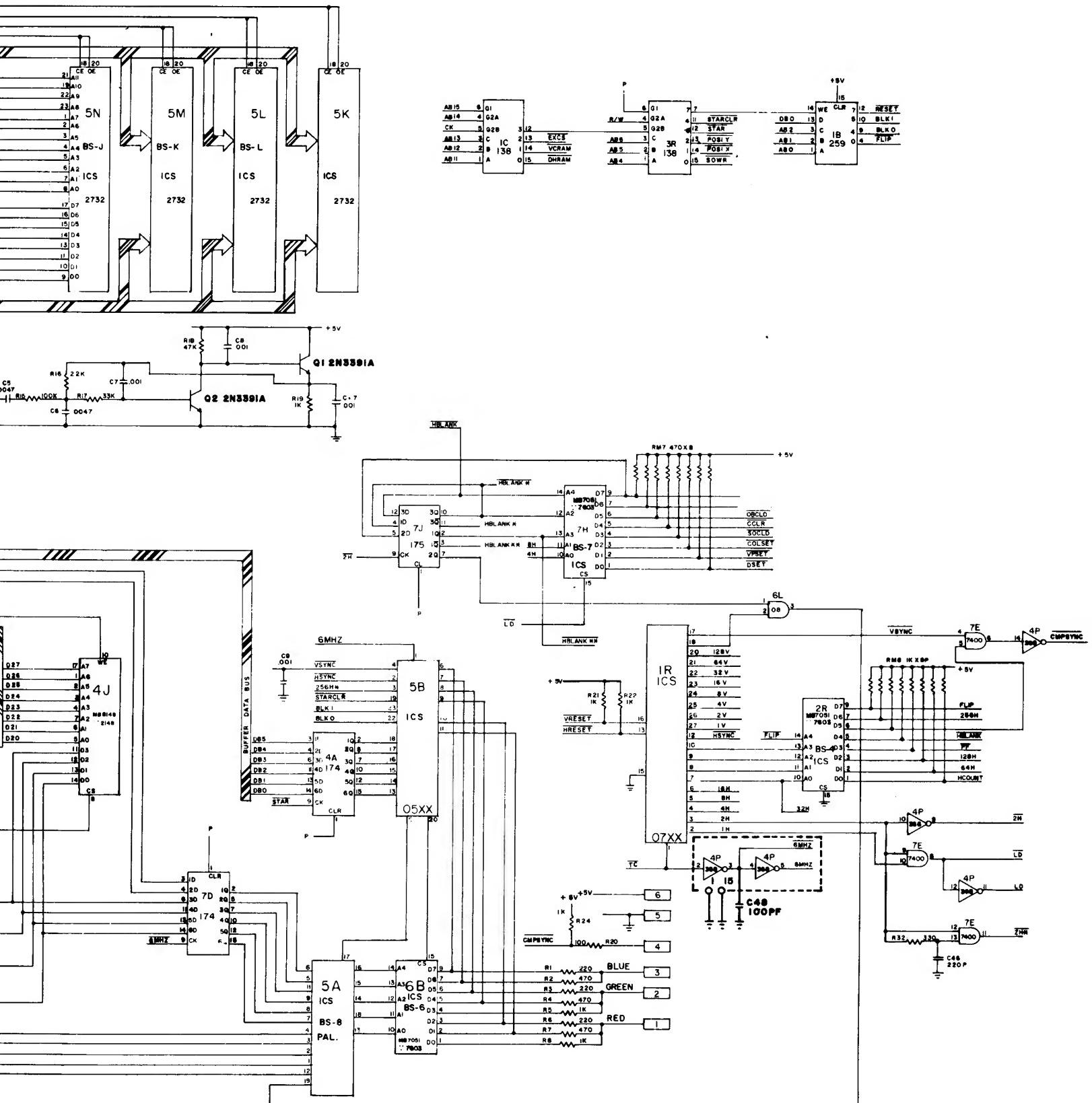
PROJECT ENG. J. SEZERSZEN

DO NOT SCALE DWG	HEAT TREAT	SCALE FULL	USED ON BOSCONIAN	MIDWAY MF
DIM. TOLERANCES UNLESS SPECIFIED DIM. TOLERANCES DECIMAL HOLE DIA. + .002 .000	21.21 S.S.	MATL FINISH	NO REQ'D 1 PER	
BOSCONIAN VIDEO A084-91413-B550 ASS'Y DRWNG.				PART NO M051-00550

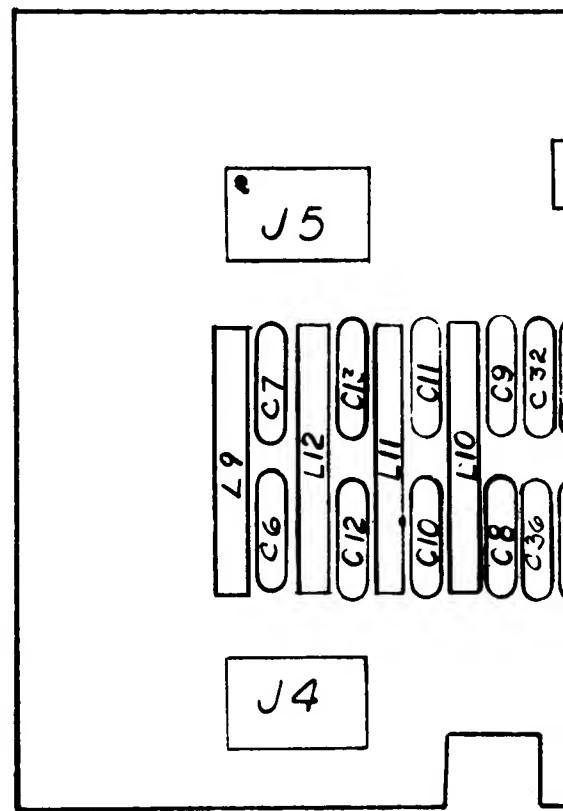








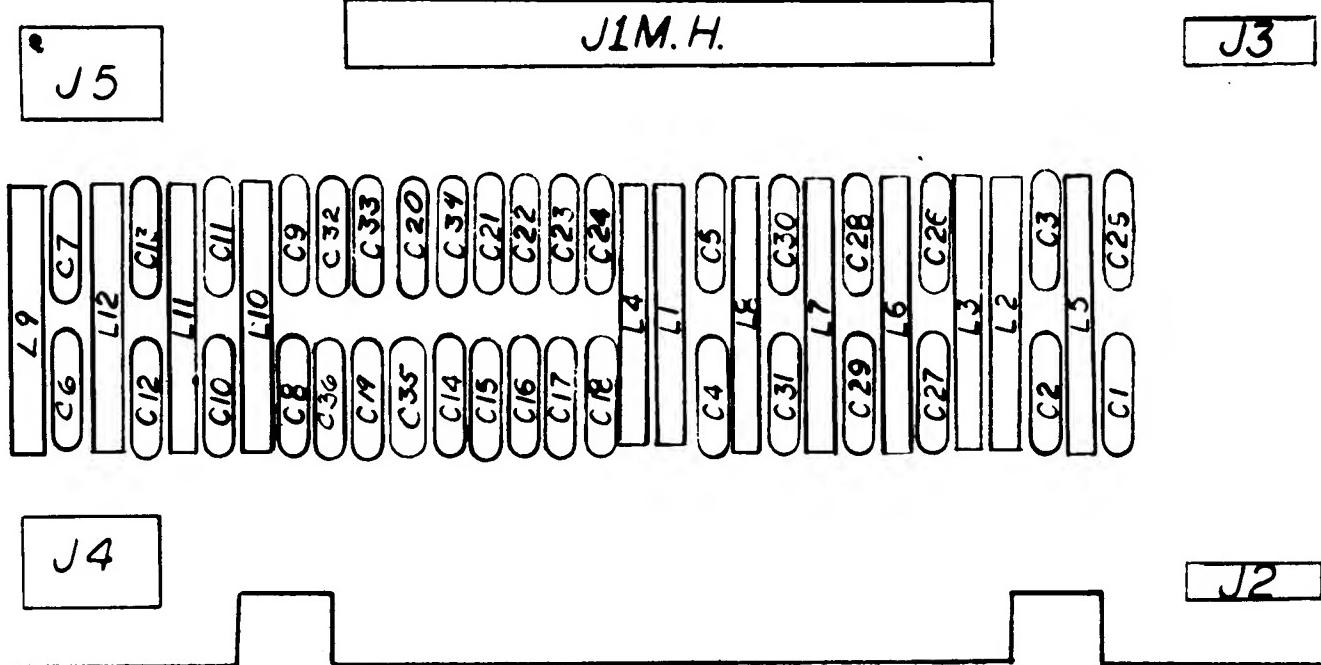
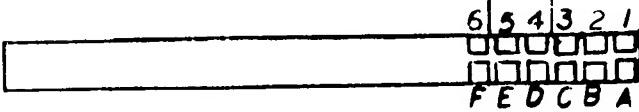
<u>DESIGNATION</u>	<u>DESCRIPTION</u>
C1	.1MF AX CER
C2-C5	47 PF AX CER
C6, C7	470PF AX CER
C8-C13	100PF AX CER
C14-C36	.01 MFAX CER
L1-L4	CHOKE 10JUH W.W. MILLER
L5-L8	CHOKE 10JUH W.W.
L9-L12	CHOKE ENCAP 10 JUH
J1	P.C. EDGE CONN
J2, J3	3 PIN HEADER
J4, JS	6 PIN HEADER
J1 M.H.	2 EDGE CONN. KEY
	(2) 6-32x10 SLOT PAN SCREW
	(2) WSH 6 145-.250-.032
	(1) BRKT.-CONN. FIN.



<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>DESIGNATION</u>	<u>PHANTOM NUMBER</u>
47PF 50VAX CER	4	C2-C5	0550-00800-0500
100PF 50VAX CER	6	C8-C13	0550-00800-0100
470PF 50VAX CER	2	C6, C7	0550-00800-0200
.01MF 50VAX CER	23	C14-C36	0550-00800-0300
.1MF 50VAX CER	1	C1	0550-00800-0400
10JUH W.W. RF CHOKE MILLER	4	L1-L4	0067-021XX-XXAX
10JUH W.W. RF CHOKE	4	L5-L8	0550-00804-0100
10JUH ENCAP RF CHOKE	4	L9-L12	0550-00804-0200
PC EDGE CONN	1	J1	0017-00021-0418

PLEASE DESTROY ALL PRINTS DATED  
PRIOR TO 1-4-82

KEY 1 BETWEEN CONTACTS  
KEY 2 BETWEEN CONTACTS



NUMBER  
-0500  
0100  
0200  
0300  
-0400  
XXAX  
-0100  
0200  
0418

DESCRIPTION QU  
3PIN HEADER  
AMP 350429-1  
6PIN HEADER  
AMP 350431-1  
PC EDGECON KEY  
6-32x10 SLOT  
PAN SCREW  
WSH 6  
145-.250-.032  
BRKT-  
CONN.FIN

PROJECT ENGINEER L. CEKKER

DIM. TOLERANCES UNLESS OTHERWISE SPEC.		FIRST USED ON	
CONCENTRICITY T.I.R. . . . .	.002	DRN	DATE
FRACTIONAL . . . . .	± .1/64	LKS	1-4-82
DECIMAL . . . . .	± .005	MECH CHK	MAT'L
HOLE DIA. . . . .	+ .002-.000		
ANGLE . . . . .	± 1/2°	ELEC CHK	FINISH
DO NOT SCALE DWG			

DATED

BETWEEN CONTACTS 5,E AND 6,F

BETWEEN CONTACTS 3,C AND 4,D

J3

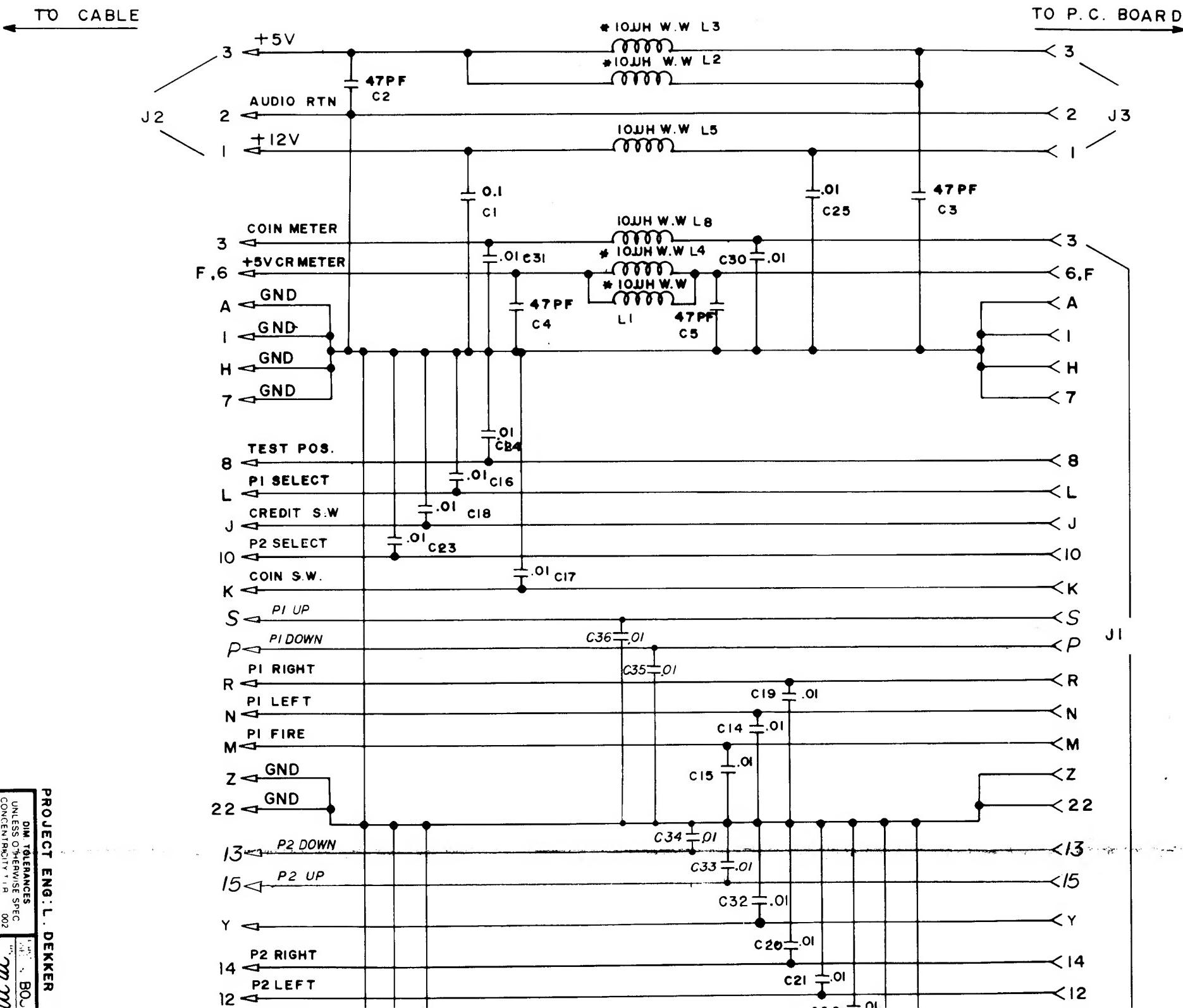
J2

<u>SCRIPTION</u>	<u>QUANTITY</u>	<u>DESIGNATION</u>	<u>PHANTOM NUMBER</u>
PIN HEADER MP 350429-1	2	J2-J3	0017-00021-0443
PIN HEADER MP 350431-1	2	J4-J5	0017-0021-0424
EDGECON KEY	2	JIMH	0017-00021-0396
32x10 SLOT N SCREW	2	JIMH	0017-00101-0574
M6 5-.250-.032	2	JIMH	0017-00104-0002
RKT- NN.FIN	1	JIMH	0866-00116-00XF

KER

THIS DWG. IS CONFIDENTIAL & PROPERTY OF MIDWAY MFG. CO.

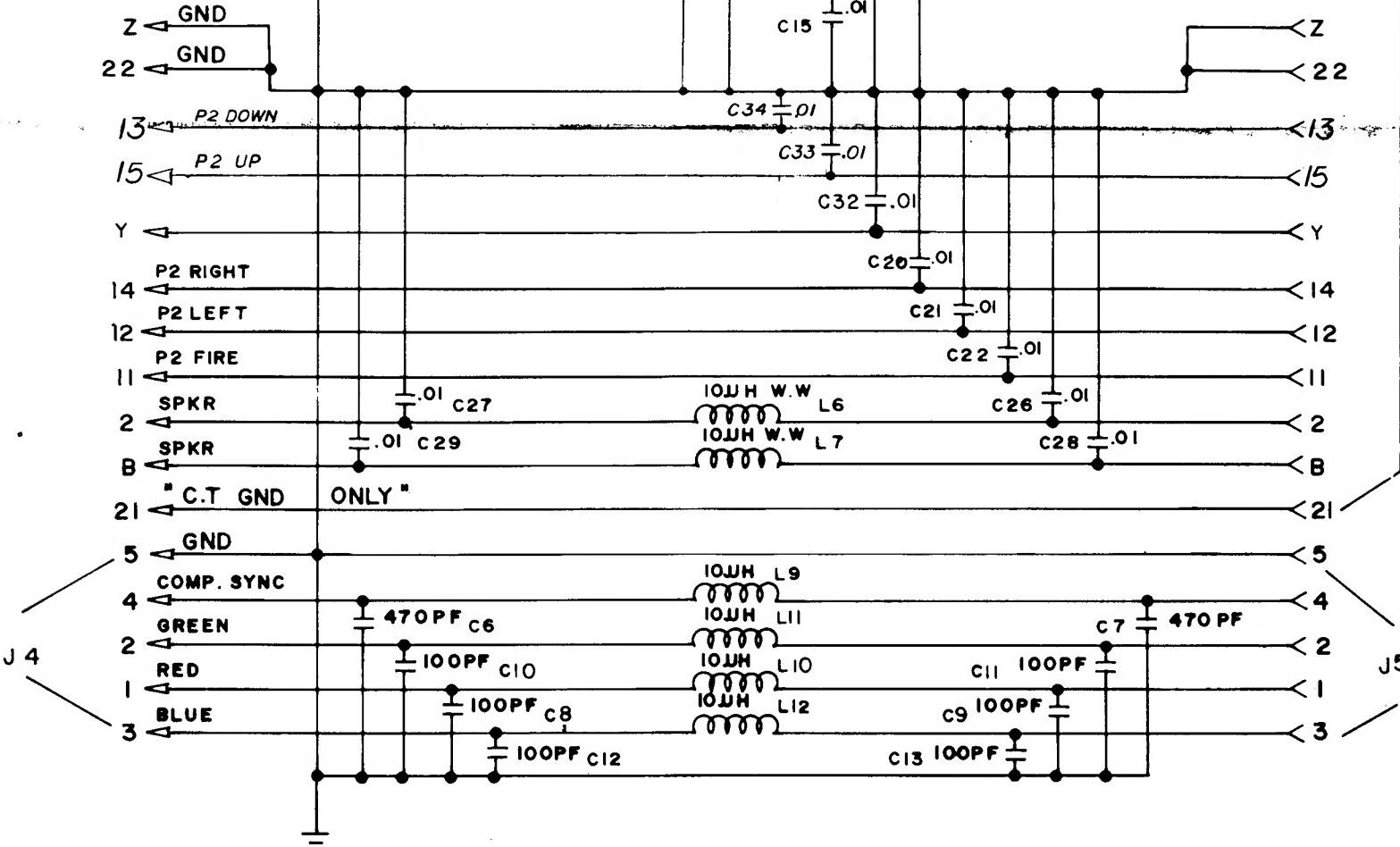
S	DATE 1-4-82	SCALE FULL	 <b>MIDWAY MFG. CO.</b> FRANKLIN PK., IL 60131 A BALLY CO.	
K	MAT'L	BOSCONIAN FILTER P.C. ASSY. DRWNG. A084-914/4-A550		
D	FINISH	REVISIONS PART NO. M-0-5-1 - 0-0-5-5-0-A-0-1-4		



PROJECT ENG'L. DEKKER

THIS DWG IS CONFIDENTIAL & PROPERTY OF MIDWAY MFG. CO.

DIM TOLERANCES	UNLESS OTHERWISE SPEC
CONCENTRICITY	.002
FRACTIONAL	.164
DECIMAL	.005
HOLE DIA	.002-.000
ANGLE	±12°
DO NOT SCALE DWG	Y5



NOTE:

ALL .11+.01 ARE MF  
ALL CAPS AX. CER. UNLESS  
NOTED OTHERWISE  
\* 1.5 AMP (MILLER TYPE)  
INDUCTORS

MIDWAY MFG. CO. FRANKLIN PK., IL 60131 A B A L L C O.	REVISIONS
PART NO	AO84-914-55
MO51-00550-AO15	